

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: I

Bond precision: C-C = 0.0451 A Wavelength=0.71073

Cell: a=12.6390(15) b=12.6459(14) c=15.8527(18)
 alpha=78.916(3) beta=75.930(3) gamma=71.011(1)

Temperature: 298 K

	Calculated	Reported
Volume	2306.3(5)	2306.3(5)
Space group	P -1	P-1
Hall group	-P 1	?
Moiety formula	C78 H70 Er2 N4 O12, 4(C2 H6 O)	?
Sum formula	C86 H94 Er2 N4 O16	C86 H94 Er2 N4 O16
Mr	1774.17	1774.17
Dx,g cm-3	1.277	1.277
Z	1	1
Mu (mm-1)	1.866	1.866
F000	902.0	902.0
F000'	901.84	
h,k,lmax	15,15,18	15,15,18
Nref	8130	7848
Tmin,Tmax	0.735,0.878	0.742,0.880
Tmin'	0.721	

Correction method= # Reported T Limits: Tmin=0.742 Tmax=0.880
AbsCorr = MULTI-SCAN

Data completeness= 0.965 Theta(max)= 25.020

R(reflections)= 0.1444(4959) wR2(reflections)= 0.3470(7848)

S = 1.090 Npar= 488

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 B

PLAT232_ALERT_2_B	Hirshfeld Test Diff (M-X)	Er1	--O4_a	.	10.1 s.u.
PLAT234_ALERT_4_B	Large Hirshfeld Difference	C34	--C35	.	0.30 Ang.
PLAT342_ALERT_3_B	Low Bond Precision on C-C Bonds	.....			0.04512 Ang.
PLAT369_ALERT_2_B	Long C(sp2)-C(sp2) Bond	C1	- C2	.	1.57 Ang.
PLAT369_ALERT_2_B	Long C(sp2)-C(sp2) Bond	C10	- C11	.	1.59 Ang.
PLAT369_ALERT_2_B	Long C(sp2)-C(sp2) Bond	C31	- C38	.	1.59 Ang.
PLAT601_ALERT_2_B	Unit Cell Contains Solvent Accessible VOIDS of			.	171 Ang**3

Alert level C

RINTA01_ALERT_3_C	The value of Rint is greater than 0.12				
	Rint given	0.124			
PLAT020_ALERT_3_C	The Value of Rint is Greater Than 0.12	.....	0.124	Report	
PLAT029_ALERT_3_C	_diffrn_measured_fraction_theta_full	value Low	0.965	Why?	
PLAT048_ALERT_1_C	MoietyFormula Not Given (or Incomplete)	.....		Please Check	
PLAT082_ALERT_2_C	High R1 Value	.....	0.14	Report	
PLAT084_ALERT_3_C	High wR2 Value (i.e. > 0.25)	.....	0.35	Report	
PLAT125_ALERT_4_C	No '_symmetry_space_group_name_Hall'	Given	.....	Please Do !	
PLAT213_ALERT_2_C	Atom C26	has ADP max/min Ratio	.....	3.5	prolat
PLAT213_ALERT_2_C	Atom C33	has ADP max/min Ratio	.....	3.3	oblate
PLAT213_ALERT_2_C	Atom C38	has ADP max/min Ratio	.....	3.7	oblate
PLAT234_ALERT_4_C	Large Hirshfeld Difference	Er1	--O6	.	0.22 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	O1	--C1	.	0.19 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C12	--C13	.	0.24 Ang.
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				01 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				05 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				06 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				C13 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				C38 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				Er1 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C1 Check
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				C19 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C31 Check
PLAT243_ALERT_4_C	High 'Solvent' Ueq as Compared to Neighbors of				C40 Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including		07	0.229	Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including		08	0.160	Check
PLAT369_ALERT_2_C	Long C(sp2)-C(sp2) Bond	C15	- C16	.	1.54 Ang.
PLAT369_ALERT_2_C	Long C(sp2)-C(sp2) Bond	C30	- C31	.	1.53 Ang.
PLAT369_ALERT_2_C	Long C(sp2)-C(sp2) Bond	C33	- C34	.	1.53 Ang.
PLAT369_ALERT_2_C	Long C(sp2)-C(sp2) Bond	C34	- C39	.	1.53 Ang.

Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite				16 Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms	...			21 Report
PLAT005_ALERT_5_G	No Embedded Refinement Details Found in the CIF				Please Do !
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms	.....			2 Report
PLAT066_ALERT_1_G	Predicted and Reported Tmin&Tmax Range Identical				? Check
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large				72.49 Why ?
PLAT093_ALERT_1_G	No s.u.'s on H-positions, Refinement Reported as				mixed Check
PLAT333_ALERT_2_G	Large Aver C6-Ring C-C Dist	C2	-C7	.	1.43 Ang.
PLAT333_ALERT_2_G	Large Aver C6-Ring C-C Dist	C11	-C16	.	1.43 Ang.
PLAT333_ALERT_2_G	Large Aver C6-Ring C-C Dist	C31	-C38	.	1.50 Ang.
PLAT335_ALERT_2_G	Check Large C6 Ring C-C Range	C11	-C16	.	0.16 Ang.

PLAT335_ALERT_2_G	Check Large C6 Ring C-C Range C31	-C38				0.30 Ang.	
PLAT721_ALERT_1_G	Bond Calc	0.97000, Rep	0.96000 Dev...			0.01 Ang.	
	C9 -H9C	1.555	1.555	#	42	Check	
PLAT721_ALERT_1_G	Bond Calc	0.97000, Rep	0.96000 Dev...			0.01 Ang.	
	C17 -H17A	1.555	1.555	#	55	Check	
PLAT721_ALERT_1_G	Bond Calc	0.96000, Rep	0.97000 Dev...			0.01 Ang.	
	C40 -H40B	1.555	1.555	#	101	Check	
PLAT721_ALERT_1_G	Bond Calc	0.96000, Rep	0.97000 Dev...			0.01 Ang.	
	C42 -H42B	1.555	1.555	#	107	Check	
PLAT860_ALERT_3_G	Number of Least-Squares Restraints					251	Note
PLAT899_ALERT_4_G	SHELXL97 is Deprecated and Succeeded by SHELXL/						2018 Note

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

7 **ALERT type 1** CIF construction/syntax error, inconsistent or missing data
33 **ALERT type 2** Indicator that the structure model may be wrong or deficient
6 **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

checkCIF publication errors

Alert level A

PUBL004_ALERT_1_A The contact author's name and address are missing,
 _publ_contact_author_name and _publ_contact_author_address.
 PUBL005_ALERT_1_A _publ_contact_author_email, _publ_contact_author_fax and
 _publ_contact_author_phone are all missing.
 At least one of these should be present.
 PUBL006_ALERT_1_A _publ_requested_journal is missing
 e.g. 'Acta Crystallographica Section C'
 PUBL008_ALERT_1_A _publ_section_title is missing. Title of paper.
 PUBL009_ALERT_1_A _publ_author_name is missing. List of author(s) name(s).
 PUBL010_ALERT_1_A _publ_author_address is missing. Author(s) address(es).
 PUBL012_ALERT_1_A _publ_section_abstract is missing.
 Abstract of paper in English.

Alert level G

PUBL017_ALERT_1_G The _publ_section_references section is missing or
 empty.

7 **ALERT level A** = Data missing that is essential or data in wrong format
1 **ALERT level G** = General alerts. Data that may be required is missing

Publication of your CIF

You should 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 nature of your study may justify the reported deviations from journal submission requirements and the more serious of these should 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.

If level A alerts remain, which you believe to be justified deviations, and you intend to submit this CIF for publication in a journal, you should additionally insert an explanation in your CIF using the Validation Reply Form (VRF) below. This will allow your explanation to be considered as part of the review process.

Validation response form

Please find below a validation response form (VRF) that can be filled in and pasted into your CIF.

```
# start Validation Reply Form
_vrf_PUBL004_GLOBAL
;
PROBLEM: The contact author's name and address are missing,
RESPONSE: ...
;
_vrf_PUBL005_GLOBAL
;
PROBLEM: _publ_contact_author_email, _publ_contact_author_fax and
RESPONSE: ...
;
_vrf_PUBL006_GLOBAL
;
PROBLEM: _publ_requested_journal is missing
RESPONSE: ...
;
_vrf_PUBL008_GLOBAL
;
PROBLEM: _publ_section_title is missing. Title of paper.
RESPONSE: ...
;
_vrf_PUBL009_GLOBAL
;
PROBLEM: _publ_author_name is missing. List of author(s) name(s).
RESPONSE: ...
;
_vrf_PUBL010_GLOBAL
;
PROBLEM: _publ_author_address is missing. Author(s) address(es).
RESPONSE: ...
;
_vrf_PUBL012_GLOBAL
;
```

PROBLEM: _publ_section_abstract is missing.
RESPONSE: ...
;
end Validation Reply Form

If you wish to submit your CIF for publication in Acta Crystallographica Section C or E, you should upload your CIF via the web. If you wish to submit your CIF for publication in IUCrData you should upload your CIF via the web. If your CIF is to form part of a submission to another IUCr journal, you will be asked, either during electronic submission or by the Co-editor handling your paper, to upload your CIF via our web site.

PLATON version of 05/12/2020; check.def file version of 05/12/2020

Datablock I - ellipsoid plot

