

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) ham_vof_2

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: ham_vof_2

Bond precision: 0- N = 0.0014 A Wavelength=0.71073

Cell: a=7.2349(2) b=5.03513(16) c=12.8322(4)
 alpha=90 beta=94.843(3) gamma=90
Temperature: 150 K

	Calculated	Reported
Volume	465.79(2)	465.79(3)
Space group	P 21/n	P 1 21/n 1
Hall group	-P 2yn	-P 2yn
Moiety formula	F4 O V, H4 N O	F4 O V, H4 N O
Sum formula	F4 H4 N O2 V	F4 H4 N O2 V
Mr	176.98	176.98
Dx, g cm-3	2.524	2.524
Z	4	4
Mu (mm-1)	2.141	2.141
F000	344.0	344.0
F000'	345.54	
h, k, lmax	10, 7, 17	9, 6, 16
Nref	1304	1139
Tmin, Tmax	0.821, 0.957	0.791, 0.957
Tmin'	0.707	

Correction method= # Reported T Limits: Tmin=0.791 Tmax=0.957
AbsCorr = ANALYTICAL

Data completeness= 0.873 Theta(max)= 29.655

R(reflections)= 0.0180(1066) wR2(reflections)= 0.0444(1139)

S = 1.063 Npar= 90

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

PLAT416_ALERT_2_C	Short Intra D-H..H-D	H1	..	H4	..	1.90	Ang.
PLAT911_ALERT_3_C	Missing # FCF Refl Between THmin & STh/L=	0.600				8	Report

Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite					2	Note
PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension					1	Info
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records					1	Report
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) V1	--	01	..		5.2	su
PLAT860_ALERT_3_G	Number of Least-Squares Restraints					1	Note
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Th(Min) ...					2	Report
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L=	0.600				143	Note

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

0 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
3 ALERT type 3 Indicator that the structure quality may be low
2 ALERT type 4 Improvement, methodology, query or suggestion
1 ALERT type 5 Informative message, check

checkCIF publication errors

Alert level A

PUBL002_ALERT_1_A The contact author's address is missing,
_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.
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.

6 **ALERT level A** = Data missing that is essential or data in wrong format
0 **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_PUBL002_GLOBAL
;
PROBLEM: The contact author's address is missing,
RESPONSE: ...
;
_vrf_PUBL005_GLOBAL
;
PROBLEM: _publ_contact_author_email, _publ_contact_author_fax and
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 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 29/01/2015; check.def file version of 29/01/2015

Datablock ham_vof_2 - ellipsoid plot

