

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 = 0.0740 A	Wavelength=0.71073	
Cell:	a=14.8747(6)	b=14.8747(6)	c=7.4995(4)
	alpha=90	beta=90	gamma=120
Temperature:	123 K		
	Calculated	Reported	
Volume	1437.01(16)	1437.01(14)	
Space group	P 3 1 c	P 3 1 c	
Hall group	P 3 -2c	P 3 -2c	
Moiety formula	C24 H15 Bi Mo3 O9	C24 H15 Bi1 Mo3 O9	
Sum formula	C24 H15 Bi Mo3 O9	C24 H15 Bi Mo3 O9	
Mr	944.16	944.16	
Dx,g cm-3	2.182	2.182	
Z	2	2	
Mu (mm-1)	7.429	7.429	
F000	880.0	880.0	
F000'	861.99		
h,k,lmax	18,18,9	17,18,8	
Nref	1978[997]	1680	
Tmin,Tmax	0.801,0.882	0.243,0.814	
Tmin'	0.139		
Correction method= # Reported T Limits: Tmin=0.243 Tmax=0.814			
AbsCorr = GAUSSIAN			
Data completeness=	1.69/0.85	Theta(max)= 26.357	
R(reflections)=	0.0686(986)	wR2(reflections)= 0.1620(1680)	
S =	0.920	Npar= 112	

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

PLAT342_ALERT_3_B	Low Bond Precision on C-C Bonds	0.0740 Ang.
PLAT369_ALERT_2_B	Long C(sp ²)-C(sp ²) Bond C7 - C8 ..	1.57 Ang.
PLAT601_ALERT_2_B	Structure Contains Solvent Accessible VOIDS of .	159 Ang ³

Alert level C

RINTA01_ALERT_3_C	The value of Rint is greater than 0.12	
	Rint given	0.145
PLAT029_ALERT_3_C	_diffn_measured_fraction_theta_full Low	0.976 Note
PLAT090_ALERT_3_C	Poor Data / Parameter Ratio (Zmax > 18)	8.90 Note
PLAT241_ALERT_2_C	High Ueq as Compared to Neighbors for	C4 Check
PLAT241_ALERT_2_C	High Ueq as Compared to Neighbors for	C5 Check
PLAT241_ALERT_2_C	High Ueq as Compared to Neighbors for	C8 Check
PLAT242_ALERT_2_C	Low Ueq as Compared to Neighbors for	Mo1 Check

Alert level G

PLAT152_ALERT_1_G	The Supplied and Calc. Volume s.u. Differ by ...	2 Units
PLAT850_ALERT_4_G	Check Flack Parameter Exact Value 0.00 and su ..	0.02 Check

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
3 **ALERT level B** = A potentially serious problem, consider carefully
7 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
2 **ALERT level G** = General information/check it is not something unexpected
- 1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
6 ALERT type 2 Indicator that the structure model may be wrong or deficient
4 ALERT type 3 Indicator that the structure quality may be low
1 ALERT type 4 Improvement, methodology, query or suggestion
0 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.

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.

- 7 **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_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 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 21/06/2015; check.def file version of 21/06/2015

Datablock I - ellipsoid plot

