

checkCIF () running

Checking for embedded fcf data in CIF ...

Found embedded fcf data in CIF. Extracting fcf data from uploaded CIF, please wait . .

checkCIF/PLATON (full publication check)

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

No syntax errors found.

Please wait while processing

[CIF dictionary](#)

[Interpreting this report](#)

Datablock: I

Bond precision: O- B = 0.0318 A Wavelength=0.71073
Cell: a=7.7988(6) b=9.1196(7) c=13.2883(11)
 alpha=90 beta=103.092(1) gamma=90
Temperature: 296 K

	Calculated	Reported
Volume	920.53(13)	920.52(13)
Space group	P 21	P 21
Hall group	P 2yb	P 2yb
Moiety formula	B14 Eu2 O26 Pb2	?
Sum formula	B14 Eu2 O26 Pb2	B7 Eu O13 Pb
Mr	1285.68	642.82
Dx, g cm-3	4.639	4.638
Z	2	4
Mu (mm-1)	25.102	25.103
F000	1136.0	1136.0
F000'	1123.37	
h, k, lmax	10, 12, 17	10, 12, 17
Nref	4584 [2434]	4362
Tmin, Tmax	0.015, 0.285	0.157, 0.482
Tmin'	0.005	

Correction method= # Reported T Limits: Tmin=0.157 Tmax=0.482 AbsCorr = MULTI-SCAN
Data completeness= 1.79/0.95 Theta(max)= 28.299
R(reflections)= 0.0349(3718) wR2(reflections)= 0.0871(4362)
S = 1.032 Npar= 357

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

PLAT220_ALERT_2_B	Non-Solvent Resd 1	B	Ueq(max)/Ueq(min) Range	9.4 Ratio
PLAT220_ALERT_2_B	Non-Solvent Resd 1	O	Ueq(max)/Ueq(min) Range	6.3 Ratio
PLAT987_ALERT_1_B	The Flack x is >> 0	-	Do a BASF/TWIN Refinement	Please Check

Alert level C

ABSTY02_ALERT_1_C	An exptl absorpt correction type has been given without a literature citation. This should be contained in the exptl absorpt process details field.
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Absorption correction given as multi-scan

PLAT090_ALERT_3_C	Poor Data / Parameter Ratio (Zmax > 18)	6.82	Note
PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density	2.73	Report

Alert level G

PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	40	Report
PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	3	Info
PLAT012_ALERT_1_G	N.O.K. shelx res checksum found in CIF	Please	Check
PLAT033_ALERT_4_G	Flack x Value Deviates > 3.0 * sigma from Zero .	0.030	Note
PLAT045_ALERT_1_G	Calculated and Reported Z Differ by a Factor ...	0.50	Check
PLAT171_ALERT_4_G	The CIF-Embedded .res File Contains EADP Records	6	Report
PLAT186_ALERT_4_G	The CIF-Embedded .res File Contains ISOR Records	1	Report
PLAT397_ALERT_2_G	Deviating B-O-B Angle from 120 Deg for O6	134.5	Degree

And 2 other PLAT397 Alerts

PLAT397_ALERT_2_G	Deviating B-O-B Angle from 120 Deg for O18	130.2	Degree
PLAT397_ALERT_2_G	Deviating B-O-B Angle from 120 Deg for O21	137.0	Degree
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	241	Note
PLAT870_ALERT_4_G	ALERTS Related to Twinning Effects Suppressed ..	!	Info

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

- 4 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
- 7 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
- 4 ALERT type 4 Improvement, methodology, query or suggestion
- 1 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.
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- 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

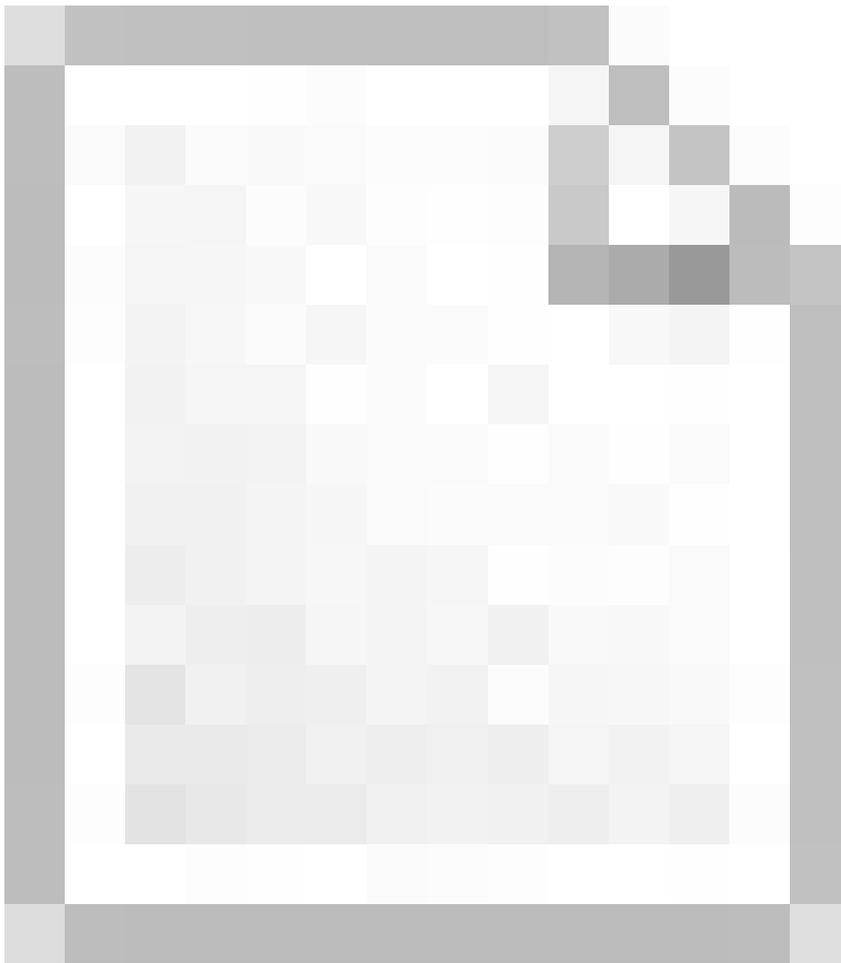
Please find below a validation response form (VRF) that can be filled in and pasted into your CIF.

```
# 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 26/02/2017; check.def file version of 21/02/2017

Datablock I - ellipsoid plot



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