



checkCIF/PLATON report

Structure factors have been supplied for datablock(s) 4

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: 4

Bond precision:	C-C = 0.0045 Å	Wavelength=0.71073	
Cell:	a=17.7843(15)	b=10.0257(11)	c=18.2006(13)
	alpha=90	beta=90	gamma=90
Temperature:	298 K		
	Calculated	Reported	
Volume	3245.2(5)	3245.2(5)	
Space group	P b c a	P b c a	
Hall group	-P 2ac 2ab	-P 2ac 2ab	
Moiety formula	C17 H19 N5 Ni O	C17 H19 N5 Ni O	
Sum formula	C17 H19 N5 Ni O	C17 H19 N5 Ni O	
Mr	368.06	368.08	
Dx, g cm-3	1.507	1.507	
Z	8	8	
Mu (mm-1)	1.210	1.210	
F000	1536.0	1536.0	
F000'	1539.08		
h, k, lmax	21, 12, 22	21, 12, 22	
Nref	3020	3020	
Tmin, Tmax	0.737, 0.739	0.746, 0.750	
Tmin'	0.723		

Correction method= # Reported T Limits: Tmin=0.746 Tmax=0.750
AbsCorr = MULTI-SCAN

Data completeness= 1.000

Theta(max)= 25.498

R(reflections)= 0.0374(2292)

wR2(reflections)=
0.1078(3020)

S = 1.021

Npar= 217

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

PLAT230_ALERT_2_C	Hirshfeld Test Diff for	N3	--N4	.	6.0 s.u.
PLAT241_ALERT_2_C	High MainResAtom Ueq as Compared to Neighbours				N3 Check
PLAT242_ALERT_2_C	Low MainResAtom Ueq as Compared to Neighbours				N4 Check
PLAT411_ALERT_2_C	Short Inter H...H Contact	H3	..H3	.	2.13 Ang.
			1-x,-y,1-z	=	5_656 Check
PLAT905_ALERT_3_C	Negative K value in the Analysis of Variance	...			-0.144 Report



Alert level G

PLAT794_ALERT_5_G	Tentative Bond Valency for Nil	(III)	.	2.70	Info
PLAT883_ALERT_1_G	Absent Datum for _atom_sites_solution_primary	..			Please Do !
PLAT967_ALERT_5_G	Note: Two-Theta Cutoff Value in Embedded .res	..		51.0	Degree
PLAT969_ALERT_5_G	The 'Henn et al.' R-Factor-gap value			2.609	Note
	Predicted wR2: Based on SigI**2	4.13	or SHELX Weight	10.57	Note
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.			2	Info

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
5 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
5 **ALERT level G** = General information/check it is not something unexpected
- 1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
5 ALERT type 2 Indicator that the structure model may be wrong or deficient
1 ALERT type 3 Indicator that the structure quality may be low
0 ALERT type 4 Improvement, methodology, query or suggestion
3 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 23/04/2026; check.def file version of 30/03/2026

