

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: 3-100K

Bond precision:	C-C = 0.0031 A	Wavelength=0.71073
Cell:	a=10.5497(7) b=17.2230(11) c=13.7678(9)	
	alpha=90 beta=106.1359(12) gamma=90	
Temperature:	100 K	
	Calculated	Reported
Volume	2403.0(3)	2403.0(3)
Space group	P 21/n	P 21/n
Hall group	-P 2yn	-P 2yn
Moiety formula	C22 H28 Fe N4 O4, I	C22 H28 Fe N4 O4, I
Sum formula	C22 H28 Fe I N4 O4	C22 H28 Fe I N4 O4
Mr	595.23	595.23
Dx,g cm-3	1.645	1.645
Z	4	4
Mu (mm-1)	1.947	1.947
F000	1196.0	1196.0
F000'	1195.89	
h,k,lmax	14,23,18	14,23,18
Nref	6390	6360
Tmin,Tmax	0.433,0.506	0.474,0.549
Tmin'	0.400	

Correction method= # Reported T Limits: Tmin=0.474 Tmax=0.549
AbsCorr = MULTI-SCAN

Data completeness= 0.995 Theta(max)= 29.000

R(reflections)= 0.0270(5558) wR2(reflections)= 0.0856(6360)

S = 1.014 Npar= 297

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

PLAT352_ALERT_3_C Short N-H (X0.87,N1.01A) N2 - H2N . 0.74 Ang.



Alert level G

PLAT005_ALERT_5_G No Embedded Refinement Details Found in the CIF Please Do !
 PLAT232_ALERT_2_G Hirshfeld Test Diff (M-X) Fe1 --N1 . 5.1 s.u.
 PLAT793_ALERT_4_G Model has Chirality at N2 (Centro SPGR) S Verify
 PLAT793_ALERT_4_G Model has Chirality at N3 (Centro SPGR) R Verify
 PLAT794_ALERT_5_G Tentative Bond Valency for Fe1 (III) . 2.95 Info
 PLAT899_ALERT_4_G SHELXL97 is Deprecated and Succeeded by SHELXL/ 2018 Note

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- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
 0 **ALERT level B** = A potentially serious problem, consider carefully
 1 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
 6 **ALERT level G** = General information/check it is not something unexpected
- 0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 1 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
 3 ALERT type 4 Improvement, methodology, query or suggestion
 2 ALERT type 5 Informative message, check
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It is advisable to 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 purpose of your study may justify the reported deviations and the more serious of these should normally 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.

Publication of your CIF in IUCr journals

A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E* or *IUCrData*, you should make sure that full publication checks are run on the final version of your CIF prior to submission.

Publication of your CIF in other journals

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

