

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 = 0.0034 A	Wavelength=0.71073
Cell:	a=7.7009(4)	b=11.7399(6) c=11.9509(6)
	alpha=89.752(3)	beta=88.039(2) gamma=86.517(3)
Temperature:	296 K	
	Calculated	Reported
Volume	1077.83(10)	1077.82(10)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C25 H21 Cl Fe N2 O S	C25 H21 Cl Fe N2 O S
Sum formula	C25 H21 Cl Fe N2 O S	C25 H21 Cl Fe N2 O S
Mr	488.80	488.80
Dx,g cm-3	1.506	1.506
Z	2	2
Mu (mm-1)	0.941	0.941
F000	504.0	504.0
F000'	505.37	
h,k,lmax	9,14,14	9,14,14
Nref	4250	4219
Tmin,Tmax	0.754,0.805	0.753,0.813
Tmin'	0.740	

Correction method= # Reported T Limits: Tmin=0.753 Tmax=0.813
AbsCorr = MULTI-SCAN

Data completeness= 0.993 Theta(max)= 26.000

R(reflections)= 0.0334(3404) wR2(reflections)= 0.0859(4219)

S = 1.027 Npar= 281

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

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of Fe1 Check



Alert level G

PLAT007_ALERT_5_G Number of Unrefined Donor-H Atoms 2 Report
 PLAT066_ALERT_1_G Predicted and Reported Tmin&Tmax Range Identical ? Check
 PLAT794_ALERT_5_G Tentative Bond Valency for Fe1 (II) . 2.15 Info
 PLAT899_ALERT_4_G SHELXL97 is Deprecated and Succeeded by SHELXL 2018 Note

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
 4 **ALERT level G** = General information/check it is not something unexpected

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

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.

