

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: stock13

Bond precision:	C-C = 0.0104 A	Wavelength=0.71073
Cell:	a=11.3421(5)	b=15.3291(7) c=36.7355(18)
	alpha=90	beta=90 gamma=90
Temperature:	150 K	
	Calculated	Reported
Volume	6387.0(5)	6387.0(5)
Space group	P 21 21 21	P 21 21 21
Hall group	P 2ac 2ab	P 2ac 2ab
Moiety formula	2(C21 H24 Fe N9 P S), 4(B F4), 3(C2 H3 N)	(C21 H24 Fe N9 P S 2+), 2(B F4 1-), 1.5(C2 H3 N)
Sum formula	C48 H57 B4 F16 Fe2 N21 P2 S2	C24 H28.50 B2 F8 Fe N10.50 P S
Mr	1513.15	756.57
Dx, g cm-3	1.574	1.574
Z	4	8
Mu (mm-1)	0.671	0.671
F000	3080.0	3080.0
F000'	3086.09	
h,k,lmax	13,18,45	13,18,45
Nref	12542[6937]	12295
Tmin,Tmax	0.781,0.897	0.819,0.921
Tmin'	0.757	

Correction method= # Reported T Limits: Tmin=0.819 Tmax=0.921
AbsCorr = ANALYTICAL

Data completeness= 1.77/0.98 Theta(max)= 25.999

R(reflections)= 0.0578(9499) wR2(reflections)= 0.1180(12295)

S = 1.018 Npar= 932

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

PLAT090_ALERT_3_C	Poor Data / Parameter Ratio (Zmax > 18)	7.44	Note
PLAT341_ALERT_3_C	Low Bond Precision on C-C Bonds	0.01037	Ang.
PLAT413_ALERT_2_C	Short Inter XH3 .. XHn H8A .. H92D ..	2.04	Ang.



Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	15	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	15	Report
PLAT012_ALERT_1_G	No _shelx_res_checksum found in CIF		Please Check
PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ		Please Check
PLAT045_ALERT_1_G	Calculated and Reported Z Differ by a Factor ...	0.50	Check
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	4	Report
PLAT175_ALERT_4_G	The CIF-Embedded .res File Contains SAME Records	1	Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	2	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	2	Report
PLAT244_ALERT_4_G	Low 'Solvent' Ueq as Compared to Neighbors of	B10	Check
PLAT244_ALERT_4_G	Low 'Solvent' Ueq as Compared to Neighbors of	B20	Check
PLAT244_ALERT_4_G	Low 'Solvent' Ueq as Compared to Neighbors of	B30	Check
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 6) ..	100 %	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 7) ..	100 %	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 8) ..	67 %	Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms (3.24) in Resd. #	6	Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms (1.76) in Resd. #	7	Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact S1 .. C30 ..	3.16	Ang.
PLAT432_ALERT_2_G	Short Inter X...Y Contact C8 .. C92B ..	3.18	Ang.
PLAT432_ALERT_2_G	Short Inter X...Y Contact C8 .. C91B ..	3.19	Ang.
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	253	Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...	10	Note

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

3 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
3 ALERT type 3 Indicator that the structure quality may be low
12 ALERT type 4 Improvement, methodology, query or suggestion
0 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.

