

checkCIF/PLATON report

No syntax errors found. CIF dictionary Interpreting this report

Datablock: klat634

Bond precision: C-C = 0.0024 Å

Wavelength=0.71073

Cell: a=22.341(7) b=22.341(7) c=22.341(7)
 alpha=90 beta=90 gamma=90
Temperature: 120 K

	Calculated	Reported
Volume	11151(6)	11151(6)
Space group	I -4 3 d	I-43d
Hall group	I -4bd 2c 3	?
Moiety formula	C25 H43 B Fe N6	?
Sum formula	C25 H43 B Fe N6	C25 H43 B Fe N6
Mr	494.31	494.31
Dx, g cm ⁻³	1.178	1.178
Z	16	16
Mu (mm ⁻¹)	0.564	0.564
F000	4256.0	4256.0
F000'	4262.40	
h,k,lmax	29,29,29	29,29,29
Nref	1243[2313]	2315
Tmin,Tmax	0.812,0.914	0.818,0.915
Tmin'	0.812	

Correction method= MULTI-SCAN

Data completeness= 1.86/1.00 Theta(max)= 28.290

R(reflections)= 0.0334(2168) wR2(reflections)= 0.0837(2315)

S = 1.078 Npar= 106

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

PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density	2.37
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X) Fe -- C9 ..	7.97 su



Alert level G

REFLT03_ALERT_4_G Please check that the estimate of the number of Friedel pairs is

correct. If it is not, please give the correct count in the
 _publ_section_exptl_refinement section of the submitted CIF.
 From the CIF: _diffn_reflms_theta_max 28.29
 From the CIF: _reflms_number_total 2315
 Count of symmetry unique reflms 1243
 Completeness (_total/calc) 186.24%
 TEST3: Check Friedels for noncentro structure
 Estimate of Friedel pairs measured 1072
 Fraction of Friedel pairs measured 0.862
 Are heavy atom types Z>Si present yes
 PLAT764_ALERT_4_G Overcomplete CIF Bond List Detected (Rep/Expd) . 1.13 Ratio

0 **ALERT level A** = In general: serious problem
 0 **ALERT level B** = Potentially serious problem
 2 **ALERT level C** = Check and explain
 2 **ALERT level G** = General alerts; check

0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 2 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
 2 ALERT type 4 Improvement, methodology, query or suggestion
 0 ALERT type 5 Informative message, check

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*, 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.

PLATON version of 31/03/2010; check.def file version of 22/03/2010

