



>>Entry Name: Iron(II) tetrafluoroborate

Synonym(s): Ferrous fluoborate

CAS Registry Number: 15283-51-9

Related CAS Registry Numbers(s): 15279-59-1

$\text{Fe}(\text{BF}_4)_2$

Molecular Formula: $\text{B}_2\text{F}_8\text{Fe}$

Molecular Weight: 229.456

Accurate Mass: 229.940773

Percentage Composition: B 9.42%; F 66.24%; Fe 24.34%

>>Derivative: Hexahydrate

Synonym(s): Iron tetrafluoroborate hexahydrate. Hexaaquairon(2+) bis-tetrafluoroborate

CAS Registry Number: 13877-16-2

Source/Synthesis: Prepd. from Fe + HBF_4 aq.

Use/Importance: Commercially available

Physical Description: V. hygroscopic pale green needles

Solubility: V. sol. H_2O , EtOH

Aldrich: 40166-8

References:

Funk, H. *et al.*, *Z. Anorg. Allg. Chem.*, 1926, **155**, 327, (*synth*)

Moss, K.C. *et al.*, *Acta Cryst.*, 1961, **14**, 330, (*cryst struct*)

Maneva, M. *et al.*, *Monatsh. Chem.*, 1976, **107**, 337, (*ir, Raman*)