



>>Entry Name: Nickel(II) tetrafluoroborate

Synonym(s): Nickel fluoborate

CAS Registry Number: 14708-14-6

Related CAS Registry Numbers(s): 14322-78-2 15684-36-3

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

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

Molecular Weight: 232.299

Accurate Mass: 231.94118

Percentage Composition: B 9.31%; F 65.43%; Ni 25.26%

Source/Synthesis: Prepd. from NiCO_3 + aq. HBF_4

Use/Importance: Commercially available

Physical Description: Green cryst. + $6\text{H}_2\text{O}$

Solubility: Sol. H_2O , EtOH

Hazard & Toxicity: Mod. toxic

Aldrich: 43598-8

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*)

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

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, NDC000