



>>Entry Name: **Diammonium hexafluorosilicate**, 9CI

Synonym(s): Ammonium fluosilicate

CAS Registry Number: 16919-19-0

Related CAS Registry Numbers(s): 17084-08-1

Extra CAS Registry Numbers(s): 1309-32-6

$(\text{NH}_4)_2\text{SiF}_6$

Molecular Formula: $\text{F}_6\text{H}_8\text{N}_2\text{Si}$

Molecular Weight: 178.153

Accurate Mass: 178.036093

Percentage Composition: F 63.98%; H 4.53%; N 15.72%; Si 15.76%

Source/Synthesis: Occurs in nature as the mineral *cryptohalite*. Synth. from NH_4Cl + pyridinium hexafluorosilicate

Physical Description: Cryst.

References:

Bozorth, R.M. *et al.*, *J.A.C.S.*, 1922, **44**, 1066-1070, (*cryst struct*)

Dean, P.A.W. *et al.*, *J.C.S.(A)*, 1967, 698-701, (*ir, Raman, F-19 nmr*)

Mohamed, K.S. *et al.*, *Indian J. Chem., Sect. A*, 1988, **27**, 712-713, (*synth, ir*)