



>> **Name: Ammonium fluoride, 9Cl**

CAS Registry Number: 12125-01-8
NH₄F

Molecular Formula: FH₄N

Molecular Weight: 37.037

Accurate Mass: 37.032777

Percentage Composition: F 51.30%; H 10.89%; N 37.82%

Source/Synthesis: Prepd. from NH₃ gas + 40% HF or by heating NH₄Cl + NaF

Use/Importance: Used in etching and frosting glass. Commercially available

Physical Description: White deliquescent cryst.

Solubility: V. sol. H₂O; sl. sol. EtOH

Other Data: On heating dec. to NH₃ and HF. Attacks glass

Hazard & Toxicity: Toxic

Aldrich: 21601-1

Fluka: 9734

Sigma: A8295

References:

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Brauer, G., *Handb. Prep. Inorg. Chem.*, 2nd edn., Academic Press, 1965, **1**, 183, (synth)

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Nabor, M.A. *et al.*, *J. Chem. Phys.*, 1969, **51**, 1353, (polymorphs)

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