



>>Entry Name: Fluoroethane, 9CI

Synonym(s): Ethyl fluoride. Fluorocarbon 161

CAS Registry Number: 353-36-6

$\text{H}_3\text{CCH}_2\text{F}$

Molecular Formula: $\text{C}_2\text{H}_5\text{F}$

Molecular Weight: 48.06

Accurate Mass: 48.037528

Percentage Composition: C 49.98%; H 10.49%; F 39.53%

Physical Description: Gas with ethereal odour

Melting Point: Fp -143.2°

Boiling Point: Bp -37.7°

Solubility: Sol. EtOH, Et₂O; spar. sol. H₂O

Hazard & Toxicity: Highly flammable, fl. p. -38°

References:

Price, C.C., *J.O.C.*, 1973, **38**, 615, (*pmr*)

Olah, G.A. *et al.*, *J.A.C.S.*, 1974, **96**, 925, (*synth*)

Saur, O. *et al.*, *CA*, 1976, **84**, 23972, (*ir*)

Tan, H.S. *et al.*, *Int. J. Mass Spectrom. Ion Phys.*, 1976, **21**, 297, (*ms*)

Spoormaker, T. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1978, **97**, 135, (*cmr*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, FIB000