



>>Entry Name: 2-Fluoroethanol, 9CI, 8CI

Synonym(s): Ethylene fluorohydrin. 2-Fluoroethyl alcohol. Flutritex 2

CAS Registry Number: 371-62-0

FCH₂CH₂OH

Molecular Formula: C₂H₅FO

Molecular Weight: 64.059

Accurate Mass: 64.032443

Percentage Composition: C 37.50%; H 7.87%; F 29.66%; O 24.98%

Physical Description: Liq.

Melting Point: Fp -26.45°

Boiling Point: Bp₇₅₇ 103.35°

Solubility: Sol. H₂O

Other Data: Aq. solns. dissolve Ca salts

Hazard & Toxicity: LD₅₀ (rat, ipr) 1.75 mg/kg. LD₅₀ (rat, orl) 5 mg/kg

Aldrich: 16034-2

Fluka: 46460

Sigma: F0879

>>Derivative: Ac

CAS Registry Number: 462-26-0

Molecular Formula: C₄H₇FO₂

Molecular Weight: 106.096

Accurate Mass: 106.043008

Percentage Composition: C 45.28%; H 6.65%; F 17.91%; O 30.16%

Physical Description: Liq.

Melting Point: Mp 1-2°

Boiling Point: Bp₇₅₃ 119.3°. Bp₂₇ 45.5°

Hazard & Toxicity: LD₅₀ (mus, ipr) 19 mg/kg

>>Derivative: α-Naphthylurethane

Melting Point: Mp 125-127°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 267A, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 177D, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 251B, (ir)

Swarts, F., *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1914, **33**, 258, (synth)

Hagen, K. *et al.*, *J.A.C.S.*, 1973, **92**, 8263, (struct)

Limat, D. *et al.*, *Annalen*, 1995, 849, (Ac)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, FIE000