



>>Entry Name: 2-Ethoxyethanol, 9CI

ENTRY UNDER REVIEW

Synonym(s): Ethylene glycol ethyl ether. 2-Ethoxyethyl alcohol. Ethyl 2-hydroxyethyl ether. Ethyl cellosolve. Cellosolve. Oxitol. Bikanol E1

CAS Registry Number: 110-80-5

EtOCH₂CH₂OH

Molecular Formula: C₄H₁₀O₂

Molecular Weight: 90.122

Accurate Mass: 90.06808

Percentage Composition: C 53.31%; H 11.18%; O 35.51%

Use/Importance: Solvent for lacquers, oils, resins, waxes, nitrocellulose, etc., also antifreeze for explosives etc.

Physical Description: Prac. odourless liq.

Melting Point: Fp -70°

Boiling Point: Bp₇₄₃ 134.8°

Solubility: Misc. H₂O, EtOH, Et₂O, Me₂CO

Hazard & Toxicity: Eye and skin irritant. LD₅₀ (rat, orl) 2125 mg/kg. Exp. reprod. effects. MEL: long-term 10 ppm (Sk)

Aldrich: 25637-4

Fluka: 2540

Sigma: E2632

>>Derivative: Ac

Synonym(s): 2-Ethoxyethyl acetate

CAS Registry Number: 111-15-9

Molecular Formula: C₆H₁₂O₃

Molecular Weight: 132.159

Accurate Mass: 132.078645

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

Melting Point: Mp -61°

Boiling Point: Bp 156°. Bp₁₂ 51°

Refractive Index: n_D²⁰ 1.4040

Hazard & Toxicity: Flammable, fl. p. 47/51°, autoignition temp. 380°. Eye and skin irritant. LD₅₀ (rat, orl) 2900 mg/kg. Exp. reprod. and teratogenic effects. MEL: long-term 10 ppm (Sk)

Aldrich: 10996-7

Fluka: 820

>>Derivative: Benzoyl

CAS Registry Number: 5451-72-9

Molecular Formula: C₁₁H₁₄O₃

Molecular Weight: 194.23

Accurate Mass: 194.094295

Percentage Composition: C 68.02%; H 7.26%; O 24.71%

Boiling Point: Bp_{738.5} 260-261°

>>Derivative: 4-Methylbenzenesulfonyl

CAS Registry Number: 17178-11-9

Molecular Formula: C₁₁H₁₆O₄S

Molecular Weight: 244.311

Accurate Mass: 244.07693

Percentage Composition: C 54.08%; H 6.60%; O 26.20%; S 13.13%

Physical Description: Cryst. or oil

Melting Point: Mp 18.5°

Boiling Point: Bp₃ 186-187°

Rare Chemicals Library: S60511-5