



>>Entry Name: 2-Methoxyethanol, 9CI

Synonym(s): Ethylene glycol monomethyl ether. 2-Hydroxyethyl methyl ether. Methylcellosolve

CAS Registry Number: 109-86-4

Related CAS Registry Numbers(s): 17178-10-8

MeOCH<sub>2</sub>CH<sub>2</sub>OH

Molecular Formula: C<sub>3</sub>H<sub>8</sub>O<sub>2</sub>

Molecular Weight: 76.095

Accurate Mass: 76.05243

Percentage Composition: C 47.35%; H 10.60%; O 42.05%

Use/Importance: Solvent. Used as aq. soln. in flotation sepn. of Zn and Cu or Ag and Cu (with dithizone)

Physical Description: Liq.

Melting Point: Fp -86.5°

Boiling Point: Bp<sub>767</sub> 124.9°

Solubility: Misc. H<sub>2</sub>O, Et<sub>2</sub>O, C<sub>6</sub>H<sub>6</sub>

pKa Value: pK<sub>a</sub> 14.8 (25°)

**Hazard & Toxicity:** Flammable. Peroxidizable. Irritant to mucous membranes. Prolonged or repeated exposure can cause adverse CNS and haemopoietic effects. LD<sub>50</sub> (rat, ori) 2460 mg/kg. LD<sub>50</sub> (rbt, skn) 1280 mg/kg. Exp. reprod. (male and female) and teratogenic effects. Probable human teratogen. MEL: long-term 5 ppm (Sk)

Aldrich: 36050-3

Fluka: 64730

Sigma: E5378

>>Derivative: Ac

Synonym(s): 2-Methoxyethyl acetate

CAS Registry Number: 110-49-6

Molecular Formula: C<sub>5</sub>H<sub>10</sub>O<sub>3</sub>

Molecular Weight: 118.132

Accurate Mass: 118.062995

Percentage Composition: C 50.84%; H 8.53%; O 40.63%

Boiling Point: Bp 145°

Solubility: Sol. H<sub>2</sub>O

**Hazard & Toxicity:** Flammable. Peroxidizable. Eye irritant. MEL: long-term 5 ppm (Sk)

Aldrich: 10988-6

Fluka: 860

Sigma: M3162

>>Derivative: 4-Nitrobenzoyl

Melting Point: Mp 49°

Boiling Point: Bp<sub>0.07</sub> 118-119.5°

Density: d<sup>20</sup> 1.25

>>Derivative: 4-Methylbenzenesulfonyl

CAS Registry Number: 17178-10-8

Molecular Formula: C<sub>10</sub>H<sub>14</sub>O<sub>4</sub>S

Molecular Weight: 230.284

Accurate Mass: 230.06128

Percentage Composition: C 52.16%; H 6.13%; O 27.79%; S 13.92%

Melting Point: Mp 10°

Boiling Point: Bp<sub>0.2</sub> 141°. Bp<sub>0.03</sub> 96°

Refractive Index: n<sub>D</sub><sup>25</sup> 1.5085

>>Derivative: *tert*-Butyl ether

Synonym(s): 1-*tert*-Butoxy-2-methoxyethane