



Accurate Mass: 89.047679
Percentage Composition: C 40.44%; H 7.92%; N 15.72%; O 35.92%
Physical Description: Cryst. (MeCN)
Melting Point: Mp 65-66°
Boiling Point: Bp_{1.5} 152°

>>Derivative: Nitrile

Synonym(s): 3-Hydroxypropanenitrile. 2-Cyanoethanol. Ethylene cyanohydrin

CAS Registry Number: 109-78-4
Molecular Formula: C₃H₅NO
Molecular Weight: 71.079
Accurate Mass: 71.037114
Percentage Composition: C 50.69%; H 7.09%; N 19.71%; O 22.51%
Physical Description: Oil
Boiling Point: Bp 220°. Bp₁₅ 110°
Hazard & Toxicity: Emits HCN on heating or on contact with acids. Eye and skin irritant

Aldrich: 23635-7
Fluka: 56280
Sigma: C6773

>>Derivative: Me ether

Synonym(s): 3-Methoxypropanoic acid, 9CI. Hydracrylic acid methyl ether

CAS Registry Number: 2544-06-1
Molecular Formula: C₄H₈O₃
Molecular Weight: 104.105
Accurate Mass: 104.047345
Percentage Composition: C 46.15%; H 7.75%; O 46.11%
Physical Description: Liq.
Boiling Point: Bp₁₀ 107°. Bp₃₀ 126°
Density: d₄²⁵ 1.102
pKa Value: pK_a 3.46 (25°, H₂O)
Aldrich: 37454-7
Fluka: 65299

>>Derivative: Me ether, Me ester

CAS Registry Number: 10606-42-5
Molecular Formula: C₅H₁₀O₃
Molecular Weight: 118.132
Accurate Mass: 118.062995
Percentage Composition: C 50.84%; H 8.53%; O 40.63%
Boiling Point: Bp 142.6-142.8°. Bp 144-145°. Bp₂₂ 54°

>>Derivative: Me ether, Et ester

CAS Registry Number: 3852-09-3
Molecular Formula: C₆H₁₂O₃
Molecular Weight: 132.159
Accurate Mass: 132.078645
Percentage Composition: C 54.53%; H 9.15%; O 36.32%
Boiling Point: Bp 159°. Bp₂₀ 60°. Bp₁₂ 50°

Aldrich: 40742-9
Fluka: 65302

>>Derivative: Me ether, chloride

CAS Registry Number: 4244-59-1
Molecular Formula: C₄H₇ClO₂
Molecular Weight: 122.551
Accurate Mass: 122.013457
Percentage Composition: C 39.20%; H 5.76%; Cl 28.93%; O 26.11%
Boiling Point: Bp 135-136°