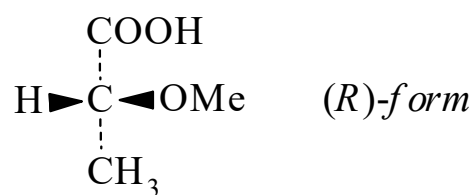




>>Entry Name: 2-Methoxypropanoic acid, 9CI

Synonym(s): *O*-Methylactic acid. Lactic acid methyl ether



CAS Registry Number: 4324-37-2

Molecular Formula: C₄H₈O₃

Molecular Weight: 104.105

Accurate Mass: 104.047345

Percentage Composition: C 46.15%; H 7.75%; O 46.11%

>>Variant: (*R*)-form

CAS Registry Number: 23943-96-6

Molecular Formula: C₄H₈O₃

Molecular Weight: 104.105

Accurate Mass: 104.047345

Percentage Composition: C 46.15%; H 7.75%; O 46.11%

Boiling Point: Bp₁₅ 86-86°

Optical Rotation: $[\alpha]_{\text{D}}^{22} +72$ (neat liq.)

>>Derivative: Me ester

CAS Registry Number: 54656-63-2

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 130-131°. Bp₁₈ 40°

Density: d^{16.4} 1

>>Derivative: Nitrile

Synonym(s): 1-Cyano-1-methoxyethane

CAS Registry Number: 64531-49-3

Molecular Formula: C₄H₇NO

Molecular Weight: 85.105

Accurate Mass: 85.052764

Percentage Composition: C 56.45%; H 8.29%; N 16.46%; O 18.80%

Boiling Point: Bp 115°

>>Variant: (*S*)-form

CAS Registry Number: 23953-00-6

Molecular Formula: C₄H₈O₃

Molecular Weight: 104.105

Accurate Mass: 104.047345

Percentage Composition: C 46.15%; H 7.75%; O 46.11%

Physical Description: Oil

Boiling Point: Bp₃₀ 108-110°. Bp₁₅ 88-89°

>>Derivative: Me ester

CAS Registry Number: 54656-65-4

Boiling Point: Bp₂₂ 450°

Optical Rotation: $[\alpha]_{\text{D}}^{10} -97.66$

>>Derivative: Et ester