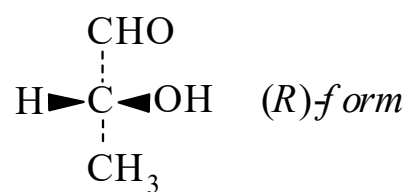




>>Entry Name: 2-Hydroxypropanal, 9CI
Synonym(s): Lactaldehyde. Lactic aldehyde



CAS Registry Number: 598-35-6
Related CAS Registry Numbers(s): 35682-20-3 35682-21-4 42919-42-6

Molecular Formula: C₃H₆O₂
Molecular Weight: 74.079
Accurate Mass: 74.03678
Percentage Composition: C 48.64%; H 8.16%; O 43.20%

>>Variant: (R)-form

CAS Registry Number: 3946-09-6
Molecular Formula: C₃H₆O₂
Molecular Weight: 74.079
Accurate Mass: 74.03678
Percentage Composition: C 48.64%; H 8.16%; O 43.20%
Use/Importance: Used in synth. of opt. active β-lactams
Optical Rotation: $[\alpha]_{\text{D}}^{26} -2.65$

>>Derivative: Ac

CAS Registry Number: 66875-69-2
Molecular Formula: C₅H₈O₃
Molecular Weight: 116.116
Accurate Mass: 116.047345
Percentage Composition: C 51.72%; H 6.94%; O 41.34%
Boiling Point: Bp₃₀ 65-68°

>>Derivative: Benzoyl

CAS Registry Number: 78871-04-2
Molecular Formula: C₁₀H₁₀O₃
Molecular Weight: 178.187
Accurate Mass: 178.062995
Percentage Composition: C 67.41%; H 5.66%; O 26.94%
Boiling Point: Bp₂₀ 82-85°

>>Derivative: Benzyl ether
Synonym(s): 2-Benzyloxypropanal

CAS Registry Number: 81445-45-6
Extra CAS Registry Numbers(s): 81445-44-5
Molecular Formula: C₁₀H₁₂O₂
Molecular Weight: 164.204
Accurate Mass: 164.08373
Percentage Composition: C 73.15%; H 7.37%; O 19.49%
Use/Importance: Synthon for stereocontrolled organic reactions
Boiling Point: Bp₈ 100-120°
Optical Rotation: $[\alpha]_{\text{D}}^{20} +60$ (c, 1 in CHCl₃)

>>Variant: (S)-form

CAS Registry Number: 3913-64-2
Molecular Formula: C₃H₆O₂
Molecular Weight: 74.079
Accurate Mass: 74.03678
Percentage Composition: C 48.64%; H 8.16%; O 43.20%