



>>Entry Name: 3-Hydroxypropanoic acid, 9CI

Synonym(s): Hydracrylic acid, 8CI. β -Lactic acid

CAS Registry Number: 503-66-2

HOCH₂CH₂COOH

Molecular Formula: C₃H₆O₃

Molecular Weight: 90.079

Accurate Mass: 90.031695

Percentage Composition: C 40.00%; H 6.71%; O 53.28%

Physical Description: Syrup

pKa Value: p*K*_{a1} 4.49 (30°)

>>Derivative: Na salt

CAS Registry Number: 6487-38-3

Melting Point: Mp 143°

>>Derivative: Me ester

CAS Registry Number: 6149-41-3

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: Bp 177-184°. Bp₁₂ 79°

>>Derivative: Et ester

CAS Registry Number: 623-72-3

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 187°. Bp₂₀ 95-96°. Bp₁₀ 76°

>>Derivative: Ac

CAS Registry Number: 4272-12-2

Molecular Formula: C₅H₈O₄

Molecular Weight: 132.116

Accurate Mass: 132.04226

Percentage Composition: C 45.46%; H 6.10%; O 48.44%

Boiling Point: Bp 112-114° dec.. Bp_{0.4} 83-84°

>>Derivative: Ac, Me ester

CAS Registry Number: 38003-42-8

Molecular Formula: C₆H₁₀O₄

Molecular Weight: 146.143

Accurate Mass: 146.05791

Percentage Composition: C 49.31%; H 6.90%; O 43.79%

Boiling Point: Bp₁₀ 81°. Bp_{3.5} 61-63°

>>Derivative: Ac, Et ester

CAS Registry Number: 40326-37-2

Molecular Formula: C₇H₁₂O₄

Molecular Weight: 160.169

Accurate Mass: 160.07356

Percentage Composition: C 52.49%; H 7.55%; O 39.96%

Boiling Point: Bp_{3.5} 71-72°