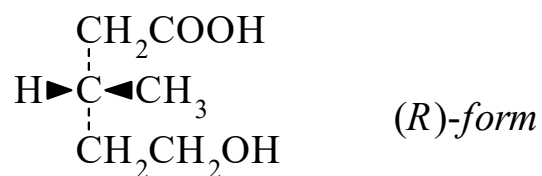




>>Entry Name: 5-Hydroxy-3-methylpentanoic acid, 9CI

Synonym(s): 5-Hydroxy-3-methylvaleric acid



CAS Registry Number: 151-11-1

Molecular Formula: C₆H₁₂O₃

Molecular Weight: 132.159

Accurate Mass: 132.078645

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

>>Variant: (R)-form

CAS Registry Number: 145610-22-6

Molecular Formula: C₆H₁₂O₃

Molecular Weight: 132.159

Accurate Mass: 132.078645

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

>>Derivative: Lactone

Synonym(s): Tetrahydro-4-methyl-2*H*-pyran-2-one. 3-Methyl-5-pentanolide. 3-Methyl- δ -valerolactone

CAS Registry Number: 61898-55-3

Molecular Formula: C₆H₁₀O₂

Molecular Weight: 114.144

Accurate Mass: 114.06808

Percentage Composition: C 63.14%; H 8.83%; O 28.03%

Optical Rotation: $[\alpha]_{\text{D}} +27.1$ (c, 1 in CHCl₃)

>>Variant: (S)-form

CAS Registry Number: 108864-78-4

Molecular Formula: C₆H₁₂O₃

Molecular Weight: 132.159

Accurate Mass: 132.078645

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

>>Derivative: Lactone

CAS Registry Number: 61898-56-4

Optical Rotation: $[\alpha]_{\text{D}} -27$ (c, 1 in CHCl₃)

>>Variant: ($\pm$)-form

Molecular Formula: C₆H₁₂O₃

Molecular Weight: 132.159

Accurate Mass: 132.078645

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

>>Derivative: Lactone

CAS Registry Number: 62989-38-2

Extra CAS Registry Numbers(s): 1121-84-2

Boiling Point: Bp₁₄ 107°

References: