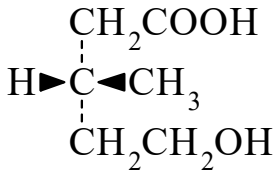
>>**Entry Name: 5-Hydroxy-3-methylpentanoic acid,** 9CI
Synonym(s): 5-Hydroxy-3-methylvaleric acid



(*R*)-*form*

CAS Registry Number: 151-11-1

Molecular Formula: $C_6H_{12}O_3$
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: $C_6H_{12}O_3$
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: $C_6H_{10}O_2$
Molecular Weight: 114.144
Accurate Mass: 114.06808
Percentage Composition: C 63.14%; H 8.83%; O 28.03%
Optical Rotation: $[\alpha]_D$ +27.1 (c, 1 in $CHCl_3$)

>>**Variant:** (*S*)-form

CAS Registry Number: 108864-78-4
Molecular Formula: $C_6H_{12}O_3$
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: $[\alpha]_D$ –27 (c, 1 in $CHCl_3$)

>>**Variant:** (±)-form

Molecular Formula: $C_6H_{12}O_3$
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: Bp_{14} 107°

References: