



>>Entry Name: 5-Hydroxypentanoic acid, 9CI

CAS Registry Number: 13392-69-3

Related CAS Registry Numbers(s): 37435-69-1

HOCH₂(CH₂)₃COOH

Molecular Formula: C₅H₁₀O₃

Molecular Weight: 118.132

Accurate Mass: 118.062995

Percentage Composition: C 50.84%; H 8.53%; O 40.63%

Other Data: Free acid very unstable, undergoing rapid lactonisation

>>Derivative: Me ester

CAS Registry Number: 14273-92-8

Molecular Formula: C₆H₁₂O₃

Molecular Weight: 132.159

Accurate Mass: 132.078645

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

Physical Description: Oil

Boiling Point: Bp 185°. Bp_{0.5} 61-65°

>>Derivative: Chloride, Ac

CAS Registry Number: 104967-11-5

Molecular Formula: C₇H₁₁ClO₃

Molecular Weight: 178.615

Accurate Mass: 178.039672

Percentage Composition: C 47.07%; H 6.21%; Cl 19.85%; O 26.87%

Boiling Point: Bp₅ 55-60°

>>Derivative: Amide

CAS Registry Number: 29686-12-2

Molecular Formula: C₅H₁₁NO₂

Molecular Weight: 117.147

Accurate Mass: 117.078979

Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%

Physical Description: Needles (EtOAc)

Melting Point: Mp 107.5-108°

Rare Chemicals Library: S44148-1

>>Derivative: Hydrazide

CAS Registry Number: 2034-25-5

Molecular Formula: C₅H₁₂N₂O₂

Molecular Weight: 132.162

Accurate Mass: 132.089878

Percentage Composition: C 45.44%; H 9.15%; N 21.20%; O 24.21%

Melting Point: Mp 107-108°

>>Derivative: Me ether

Synonym(s): 5-Methoxypentanoic acid

CAS Registry Number: 70160-05-3

Molecular Formula: C₆H₁₂O₃

Molecular Weight: 132.159

Accurate Mass: 132.078645

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

Physical Description: Oil

Boiling Point: Bp₁₅ 133-134°

>>Derivative: Lactone

References: