



>>Entry Name: **5-Amino-1-pentanol**, 9CI

Synonym(s): 5-Hydroxy-*n*-amylamine. 5-Amino-*n*-amyl alcohol

CAS Registry Number: 2508-29-4

$\text{H}_2\text{NCH}_2(\text{CH}_2)_3\text{CH}_2\text{OH}$

Molecular Formula: $\text{C}_5\text{H}_{13}\text{NO}$

Molecular Weight: 103.164

Accurate Mass: 103.099714

Percentage Composition: C 58.21%; H 12.70%; N 13.58%; O 15.51%

Physical Description: Cryst.

Melting Point: Mp 38-39° (29°)

Boiling Point: Bp 221-222°. Bp₁ 79-81°

Solubility: Misc. H_2O , EtOH

Other Data: Readily absorbs CO_2 and H_2O from air

Aldrich: 12304-8

Fluka: 9100

Sigma: A1130

>>Derivative: Picrate

Melting Point: Mp 94-95°

>>Derivative: Sulfate

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 102-103°

>>Derivative: *N*-Me

CAS Registry Number: 2751-70-4

Molecular Formula: $\text{C}_6\text{H}_{15}\text{NO}$

Molecular Weight: 117.191

Accurate Mass: 117.115364

Percentage Composition: C 61.49%; H 12.90%; N 11.95%; O 13.65%

Boiling Point: Bp₃ 95°

>>Derivative: *N,N*-Di-Me

Synonym(s): 5-Dimethylamino-1-pentanol. Pentahomocholine

CAS Registry Number: 27384-58-3

Molecular Formula: $\text{C}_7\text{H}_{17}\text{NO}$

Molecular Weight: 131.217

Accurate Mass: 131.131014

Percentage Composition: C 64.07%; H 13.06%; N 10.67%; O 12.19%

Physical Description: Liq.

Boiling Point: Bp₂₅ 115-116°

Solubility: Misc. H_2O

Other Data: Steam-volatile. Weak base

>>Derivative: *N,N*-Di-Et

Synonym(s): 5-(Diethylamino)-1-pentanol

CAS Registry Number: 2683-57-0

Molecular Formula: $\text{C}_9\text{H}_{21}\text{NO}$

Molecular Weight: 159.271

Accurate Mass: 159.162314

Percentage Composition: C 67.87%; H 13.29%; N 8.79%; O 10.05%

Physical Description: Liq.

Boiling Point: Bp₁₅ 121°

Density: d_{20}^{20} 0.8842

Refractive Index: n_D^{20} 1.4546

Other: PB D20690

References: