



>>Entry Name: 1-Undecylamine

Synonym(s): 1-Undecanamine, 9Cl. 1-Aminoundecane

CAS Registry Number: 7307-55-3

$\text{H}_3\text{C}(\text{CH}_2)_9\text{CH}_2\text{NH}_2$

Molecular Formula: $\text{C}_{11}\text{H}_{25}\text{N}$

Molecular Weight: 171.325

Accurate Mass: 171.198699

Percentage Composition: C 77.12%; H 14.71%; N 8.18%

Melting Point: Mp 15-16°

Boiling Point: Bp₇₂₇ 231.2°. Bp₂₅ 129.5-130.5°

pKa Value: pK_a 10.63 (25°)

Aldrich: U140-0

Fluka: 94198

Sigma: U2752

>>Derivative: Hydrochloride

Melting Point: Mp 190.2°

>>Derivative: *N*-Ac

Molecular Formula: $\text{C}_{13}\text{H}_{27}\text{NO}$

Molecular Weight: 213.362

Accurate Mass: 213.209264

Percentage Composition: C 73.18%; H 12.75%; N 6.56%; O 7.50%

Physical Description: Cryst. (petrol)

Melting Point: Mp 48°

Boiling Point: Bp₁₂ 192°

>>Derivative: *N*-Benzoyl

Molecular Formula: $\text{C}_{18}\text{H}_{29}\text{NO}$

Molecular Weight: 275.433

Accurate Mass: 275.224914

Percentage Composition: C 78.49%; H 10.61%; N 5.09%; O 5.81%

Physical Description: Cryst. (C_6H_6 /petrol)

Melting Point: Mp 60°

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

CAS Registry Number: 17373-28-3

Molecular Formula: $\text{C}_{13}\text{H}_{29}\text{N}$

Molecular Weight: 199.379

Accurate Mass: 199.229999

Percentage Composition: C 78.31%; H 14.66%; N 7.03%

Boiling Point: Bp_{0.1} 50°

Refractive Index: n_D²⁰ 1.4340

Aldrich: 38927-7

Fluka: 41729

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

CAS Registry Number: 15178-71-9

Molecular Formula: $\text{C}_{13}\text{H}_{29}\text{NO}$

Molecular Weight: 215.378

Accurate Mass: 215.224914

Percentage Composition: C 72.50%; H 13.57%; N 6.50%; O 7.43%

Melting Point: Mp 121-131°

Aldrich: 38253-1

Fluka: 41731

References: