



>>Entry Name: 1-Pentylamine, 8Cl

Synonym(s): 1-Pentanamine, 9Cl. 1-Aminopentane. *n*-Amylamine. Norleucamine

CAS Registry Number: 110-58-7

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

Molecular Formula: $\text{C}_5\text{H}_{13}\text{N}$

Molecular Weight: 87.164

Accurate Mass: 87.104799

Percentage Composition: C 68.90%; H 15.03%; N 16.07%

Melting Point: Fp -55°

Boiling Point: Bp 104°

pKa Value: $\text{p}K_{\text{a}}$ 10.63 (25°)

Hazard & Toxicity: Highly flammable, fl. p. -1° . Respiratory tract irritant

Aldrich: 13605-0

Fluka: 77060

Sigma: A9648

>>Derivative: Picrate

CAS Registry Number: 16639-67-1

Physical Description: Needles ($\text{EtOAc}/\text{C}_6\text{H}_6$)

Melting Point: Mp $138-139^\circ$

>>Derivative: *N*-Ac

Synonym(s): *N*-Pentylacetamide, 9Cl

CAS Registry Number: 2524-60-9

Molecular Formula: $\text{C}_7\text{H}_{15}\text{NO}$

Molecular Weight: 129.202

Accurate Mass: 129.115364

Percentage Composition: C 65.07%; H 11.70%; N 10.84%; O 12.38%

Physical Description: Liq.

Boiling Point: Bp_{1.5} $90-92^\circ$

>>Derivative: *N*-Benzoyl

Synonym(s): *N*-Pentylbenzamide, 9Cl

CAS Registry Number: 20308-43-4

Molecular Formula: $\text{C}_{12}\text{H}_{17}\text{NO}$

Molecular Weight: 191.272

Accurate Mass: 191.131014

Percentage Composition: C 75.35%; H 8.96%; N 7.32%; O 8.36%

Physical Description: Needles ($\text{Et}_2\text{O}/\text{petrol}$)

Melting Point: Mp $31-32^\circ$

Boiling Point: Bp₁₇ $202-204^\circ$. Bp₁ 155°

>>Derivative: *N*-Me

CAS Registry Number: 25419-06-1

Molecular Formula: $\text{C}_6\text{H}_{15}\text{N}$

Molecular Weight: 101.191

Accurate Mass: 101.120449

Percentage Composition: C 71.22%; H 14.94%; N 13.84%

Physical Description: Oil

Boiling Point: Bp $118.5-119^\circ$

>>Derivative: *N*-Me; hydrochloride

CAS Registry Number: 74109-19-6

Melting Point: Mp $181-182^\circ$