



>>Entry Name: 1-Octylamine, 8Cl

Synonym(s): 1-Octanamine, 9Cl. 1-Aminooctane

CAS Registry Number: 111-86-4

Related CAS Registry Numbers(s): 142-95-0

$\text{H}_3\text{C}(\text{CH}_2)_6\text{CH}_2\text{NH}_2$

Molecular Formula: $\text{C}_8\text{H}_{19}\text{N}$

Molecular Weight: 129.245

Accurate Mass: 129.151749

Percentage Composition: C 74.35%; H 14.82%; N 10.84%

Physical Description: Liq.

Boiling Point: Bp 185-187°. Bp₇₄₅ 175-177°

Density: d_4^{20} 0.7819

pKa Value: $\text{p}K_a$ 10.65 (25°)

Refractive Index: n_D^{20} 1.4292

Hazard & Toxicity: Fl. p. 60°. Eye irritant. Histamine releaser in man (iv administration)

Aldrich: O-580-2

Fluka: 74992

Sigma: O0375

Supelco: 44-2727

>>Derivative: Picrate

CAS Registry Number: 78498-55-2

Physical Description: Plates (EtOH)

Melting Point: Mp 111.5-112.5°

>>Derivative: *N*-Ac

CAS Registry Number: 7462-62-6

Molecular Formula: $\text{C}_{10}\text{H}_{21}\text{NO}$

Molecular Weight: 171.282

Accurate Mass: 171.162314

Percentage Composition: C 70.12%; H 12.36%; N 8.18%; O 9.34%

Physical Description: Liq.

Boiling Point: Bp₃ 148-149°

>>Derivative: *N*-Me

Synonym(s): 1-(Methylamino)octane

CAS Registry Number: 2439-54-5

Molecular Formula: $\text{C}_9\text{H}_{21}\text{N}$

Molecular Weight: 143.272

Accurate Mass: 143.167399

Percentage Composition: C 75.45%; H 14.77%; N 9.78%

Physical Description: Liq.

Boiling Point: Bp₁₃ 75-78°

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

Synonym(s): 1-(Dimethylamino)octane. Octyldimethylamine

CAS Registry Number: 7378-99-6

Molecular Formula: $\text{C}_{10}\text{H}_{23}\text{N}$

Molecular Weight: 157.298

Accurate Mass: 157.183049

Percentage Composition: C 76.36%; H 14.74%; N 8.90%

Use/Importance: Modified amine for liquid chromatography

Physical Description: Liq.

Melting Point: Mp -57°

Boiling Point: Bp 195°

Refractive Index: n_D^{20} 1.4243

Aldrich: 25622-6

Fluka: 40995

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