



>>Entry Name: 1-Decylamine

Synonym(s): 1-Decanamine, 9Cl. 1-Aminodecane

CAS Registry Number: 2016-57-1

$\text{H}_3\text{C}(\text{CH}_2)_8\text{CH}_2\text{NH}_2$

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%

Melting Point: Mp 15°

Boiling Point: Bp<sub>747</sub> 218-218.5°

Hazard & Toxicity: Skin irritant. LD<sub>50</sub> (rat, orl) 280 mg/kg. LD<sub>50</sub> (skn, rbt) 350 mg/kg. Fl. p. 99°

Aldrich: D240-4

Fluka: 30692

Sigma: D7388

Supelco: R60-0070

>>Derivative: Hydrochloride

CAS Registry Number: 143-09-9

Melting Point: Mp 182-183°

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

CAS Registry Number: 1120-24-7

Molecular Formula:  $\text{C}_{12}\text{H}_{27}\text{N}$

Molecular Weight: 185.352

Accurate Mass: 185.214349

Percentage Composition: C 77.76%; H 14.68%; N 7.56%

Physical Description: Liq.

Boiling Point: Bp 233-235°. Bp<sub>10</sub> 103°. Bp<sub>3.2</sub> 81°

Refractive Index: n<sub>D</sub><sup>25</sup> 1.4293

References:

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Guyer, A. *et al.*, *Helv. Chim. Acta*, 1955, **38**, 1649, (*synth*)

Murr, B.L. *et al.*, *J.A.C.S.*, 1955, **77**, 1684, (*synth*)

Blomquist, A.T. *et al.*, *J.A.C.S.*, 1959, **81**, 678-680, (*N,N*-di-Me)

Wolff, H. *et al.*, *Ber. Bunsen-Ges. Phys. Chem.*, 1964, **68**, 529, (*ir*)

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