



>>Entry Name: 1-Dodecylamine

Synonym(s): 1-Dodecanamine, 9Cl. Laurylamine. 1-Aminododecane

CAS Registry Number: 124-22-1

Related CAS Registry Numbers(s): 17448-65-6

Type of Compound Code(s): PA2450 PA2200 PS8300 PS7700 PG5150

$\text{H}_3\text{C}(\text{CH}_2)_{10}\text{CH}_2\text{NH}_2$

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%

Use/Importance: Used as an anal. reagent for aldehydes, and as a 2% soln. in BuOH for extraction-photometric detn. of Nb; extraction of Mn(III) and Fe(III) pyrophosphate complexes

Physical Description: Cryst. (C_6H_6)

Melting Point: Mp 27-28°

Boiling Point: Bp 247-249°. Bp₁₀ 126°

Solubility: Sol. EtOH, Et₂O, C_6H_6 , CHCl_3

Refractive Index: n_D^{20} 1.4421

Hazard & Toxicity: Fl. p. >107°. Severe skin and eye irritant. LD₅₀ (rat, orl) 1020 mg/kg

Aldrich: 32516-3

Fluka: 44172

Sigma: D3639

>>Derivative: Hydrochloride

CAS Registry Number: 929-73-7

Physical Description: Cryst. (CHCl_3 /petrol)

Melting Point: Mp 185-187°

>>Derivative: Acetate salt

CAS Registry Number: 2016-56-0

Physical Description: Cryst. (C_6H_6)

Melting Point: Mp 68.5-69.5°

Other: PB D56270

>>Derivative: N-Me

CAS Registry Number: 7311-30-0

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%

Physical Description: Oil

Boiling Point: Bp_{1.35} 110-115° (lit. gives a pressure range)

Aldrich: 46095-8

>>Derivative: N,N-Di-Me

CAS Registry Number: 112-18-5

Extra CAS Registry Numbers(s): 2016-48-0

Molecular Formula: $\text{C}_{14}\text{H}_{31}\text{N}$

Molecular Weight: 213.406

Accurate Mass: 213.245649

Percentage Composition: C 78.80%; H 14.64%; N 6.56%

Boiling Point: Bp₃ 110-112°

Refractive Index: n_D^{20} 1.4370

Aldrich: 28438-6

Fluka: 39150

Rare Chemicals Library: S38234-5