



>>Entry Name: 1-Tetradecylamine

Synonym(s): 1-Tetradecanamine, 9Cl. 1-Aminotetradecane

CAS Registry Number: 2016-42-4

$\text{H}_3\text{C}(\text{CH}_2)_{12}\text{CH}_2\text{NH}_2$

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%

Physical Description: Cryst.

Melting Point: Mp 46.2° (37°)

Boiling Point: Bp 291°. Bp₁ 109°

pKa Value: pK_a 10.62 (25°)

Aldrich: T1020-0

Fluka: 87202

>>Derivative: Hydrochloride

CAS Registry Number: 1838-04-6

Melting Point: Mp 194-195°

>>Derivative: Acid succinate

Melting Point: Mp 123°

>>Derivative: Benzenesulfonyl

Melting Point: Mp 66-67°

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

Synonym(s): *N,N*-Dimethyl-1-tetradecanamine

CAS Registry Number: 112-75-4

Molecular Formula: $\text{C}_{16}\text{H}_{35}\text{N}$

Molecular Weight: 241.459

Accurate Mass: 241.276949

Percentage Composition: C 79.59%; H 14.61%; N 5.80%

Boiling Point: Bp_{0.1} 105-110°

Fluka: 41653

Rare Chemicals Library: S51993-6

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

Synonym(s): Ninox M

CAS Registry Number: 3332-27-2

Molecular Formula: $\text{C}_{16}\text{H}_{35}\text{NO}$

Molecular Weight: 257.459

Accurate Mass: 257.271864

Percentage Composition: C 74.64%; H 13.70%; N 5.44%; O 6.21%

Use/Importance: Detergent

Melting Point: Mp 125-129°

Fluka: 41654

References:

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

Zuejnieks, A.Z., *CA*, 1961, **55**, 15809

Gohlke, R.S. *et al.*, *Anal. Chem.*, 1962, **34**, 1281, (*ms*)

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