



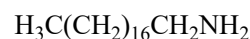
>>Entry Name: Octadecylamine

ENTRY UNDER REVIEW

Synonym(s): 1-Octadecanamine, 9CI. 1-Aminooctadecane. Stearylamine

CAS Registry Number: 124-30-1

Related CAS Registry Numbers(s): 2190-04-7 19855-61-9



Molecular Formula: $\text{C}_{18}\text{H}_{39}\text{N}$

Molecular Weight: 269.513

Accurate Mass: 269.308249

Percentage Composition: C 80.22%; H 14.58%; N 5.20%

Physical Description: Cryst.

Melting Point: Mp 49-52° (46°)

Boiling Point: Bp₅ 183-183.1°

Hazard & Toxicity: Skin irritant. LD₅₀ (mus, ipr) 250 mg/kg. LD₅₀ (mus, orl) 3000 mg/kg

Aldrich: 30539-1

Fluka: 74752

Sigma: S9273

>>Derivative: Hydrochloride

CAS Registry Number: 1838-08-0

Physical Description: Cryst.

Melting Point: Mp 160-161°

>>Derivative: *N*-Ac

CAS Registry Number: 3906-22-7

Molecular Formula: $\text{C}_{20}\text{H}_{41}\text{NO}$

Molecular Weight: 311.55

Accurate Mass: 311.318814

Percentage Composition: C 77.10%; H 13.26%; N 4.50%; O 5.14%

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 84-85°

>>Derivative: *N*-Benzoyl

Synonym(s): *N*-Octadecylbenzamide, 9CI

CAS Registry Number: 19083-52-4

Molecular Formula: $\text{C}_{25}\text{H}_{43}\text{NO}$

Molecular Weight: 373.621

Accurate Mass: 373.334464

Percentage Composition: C 80.37%; H 11.60%; N 3.75%; O 4.28%

Use/Importance: Used in thermal diazo recording materials

Melting Point: Mp 85.5-86°

>>Derivative: *N*-Me

CAS Registry Number: 2439-55-6

Molecular Formula: $\text{C}_{19}\text{H}_{41}\text{N}$

Molecular Weight: 283.54

Accurate Mass: 283.323899

Percentage Composition: C 80.49%; H 14.57%; N 4.94%

Melting Point: Mp 42-46°

Aldrich: M6500-9

Fluka: 68166

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

Synonym(s): *N,N*-Dimethyl-1-octadecanamine, 9CI. **Dimantine**, INN. Dymanthine

CAS Registry Number: 124-28-7