



>>Entry Name: *N,N*-Dimethylethylamine

Synonym(s): *N,N*-Dimethylethanamine, 9Cl. *N*-Ethyldimethylamine

CAS Registry Number: 598-56-1

Me₂NEt

Molecular Formula: C₄H₁₁N

Molecular Weight: 73.138

Accurate Mass: 73.089149

Percentage Composition: C 65.69%; H 15.16%; N 19.15%

Physical Description: Volatile liq.

Boiling Point: Bp 37.5°

Hazard & Toxicity: Highly flammable, fl. p. -36°. OES: long-term 10 ppm; short-term 15 ppm

Aldrich: 23935-6

Fluka: 3442

>>Derivative: Hydrochloride

CAS Registry Number: 58114-25-3

Physical Description: Rhombic prisms (EtOH)

Melting Point: Mp 221-222°

Solubility: Sol. H₂O, EtOH; insol. Et₂O

>>Derivative: Hydrobromide

Physical Description: Rhombic prisms (EtOH)

Melting Point: Mp 196-197° (sinters)

Solubility: Sol. H₂O, EtOH, CHCl₃; insol. Et₂O

>>Derivative: Picrate

Physical Description: Cryst. (EtOH)

Melting Point: Mp 195°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 299C, (*ir*)

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 480C, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 383C, (*ir*)

Schlegel, F., *Ber.*, 1931, **64**, 1739, (*synth*)

v. Overbeke, J. *et al.*, *Bull. Soc. Chim. Fr.*, 1962, 933, (*synth, derivs*)

Babayan, A.T. *et al.*, *CA*, 1965, **63**, 6838, (*synth, deriv*)

Makosza, M. *et al.*, *Pol. J. Chem. (Rocz. Chem.)*, 1965, **39**, 1223; *CA*, **64**, 12596, (*synth*)