



CAS Registry Number: 532-76-3

Physical Description: Bitter cryst.

Melting Point: Mp 182-184°

Hazard & Toxicity: Tissue irritation and necrosis reported when used therapeutically. LD₅₀ (mus, orl) 1080 mg/kg

>>**Derivative:** Me ether, *N,N*-di-Et

Synonym(s): 1-(Diethylamino)-2-methoxypropane

Molecular Formula: C₈H₁₉NO

Molecular Weight: 145.244

Accurate Mass: 145.146664

Percentage Composition: C 66.16%; H 13.18%; N 9.64%; O 11.02%

Boiling Point: Bp₁₂ 46-47°

>>**Derivative:** Et ether, *N,N*-di-Et

Synonym(s): 1-(Diethylamino)-2-ethoxypropane

Molecular Formula: C₉H₂₁NO

Molecular Weight: 159.271

Accurate Mass: 159.162314

Percentage Composition: C 67.87%; H 13.29%; N 8.79%; O 10.05%

Use/Importance: Local anaesthetic

Boiling Point: Bp₁₈ 70-72°

Calculated Log P Data: Log P 1.94 (calc)

References:

- Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **1**, 335C; 335D; 336A; 343B, (*ir*)
Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 537A; 537B; 537C; 547A, (*nmr*)
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 425A; 425B; 425C; 433C, (*ir*)
Levene, P.A. *et al.*, *J. Biol. Chem.*, 1924, **60**, 179; 1927, **71**, 461; 1936, **113**, 153, (*synth*)
Karrer, W. *et al.*, *Helv. Chim. Acta*, 1925, **8**, 394, (*synth*)
Austrian Pat., 1933, 135 351; *CA*, **28**, 1355, (*synth*)
D'Alelio, G.F. *et al.*, *J.A.C.S.*, 1937, **59**, 111, (*N*-dodecanoyl)
Wolf, D.E. *et al.*, *J.A.C.S.*, 1950, **72**, 2820, (*abs config*)
Vandam, L.D., *N. Engl. J. Med.*, 1960, **263**, 963, (*Hexylcaine*)
Kirk-Othmer Encycl. Chem. Technol., 2nd edn., Wiley, 1963, **19**, 552, (*use, N*-dodecanoyl)
Weil, J.K. *et al.*, *J. Am. Oil Chem. Soc.*, 1970, **47**, 91; 1971, **48**, 674, (*N*-dodecanoyl, *synth*, *props*)
Japan. Pat., 1975, 116 408; *CA*, **84**, 58611, (*synth*)
Strohalm, J. *et al.*, *Angew. Makromol. Chem.*, 1978, **70**, 109-118, (*2-methyl-2-propenoyl*)
Nakamura, K. *et al.*, *Yukagaku*, 1980, **29**, 501; *CA*, **93**, 210080x, (*N*-dodecanoyl, *hplc detn*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 1010
Rossen, K. *et al.*, *Synth. Commun.*, 1993, **23**, 1071, (*synth, R-form*)
Martens, J. *et al.*, *Synth. Commun.*, 1994, **24**, 1381, (*R-form, synth, pmr*)
Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 1234
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, AMA500; COU250