



>>Entry Name: *N,N,N',N'*-Tetramethyl-1,6-hexanediamine, 9CI

Synonym(s): *N,N,N',N'*-Tetramethylhexamethylenediamine

CAS Registry Number: 111-18-2

Me2N(CH2)6NMe2

Molecular Formula: $C_{10}H_{24}N_2$

Molecular Weight: 172.313

Accurate Mass: 172.193948

Percentage Composition: C 69.70%; H 14.04%; N 16.26%

Melting Point: Mp 248° (as hydrochloride)

Boiling Point: Bp 209-210°

Aldrich: 10513-9

>>Derivative: Bis(8-chlorotheophyllinate)

Synonym(s): Regutensin

Use/Importance: Antihypertensive agent

Physical Description: Cryst. (EtOH)

Melting Point: Mp 165°

>>Derivative: Polymer with 1,3-dibromopropane

Synonym(s): Hexadimethrine bromide, BAN, INN. Polybrene

CAS Registry Number: 9011-04-5

Molecular Formula: $C_{13}H_{30}Br_2N_2$

Molecular Weight: 374.201

Accurate Mass: 372.11757

Percentage Composition: C 41.73%; H 8.08%; Br 42.71%; N 7.49%

Use/Importance: Heparin antagonist

Physical Description: Hygroscopic amorph. polymer

Development Status: Never marketed

Hazard & Toxicity: LD₅₀ (rat, ivn) 20 mg/kg

Fluka: 52495

References:

- Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **1**, 307D, (*ir*)
Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 499A, (*nmr*)
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 395C, (*ir*)
Cavallito, C.J. *et al.*, *J.A.C.S.*, 1954, **76**, 1862, (*synth*)
Netherlands Pat., 1956, 80 362; *CA*, **50**, 17348a, (*synth, deriv*)
Kimura, E.T. *et al.*, *Toxicol. Appl. Pharmacol.*, 1959, **1**, 185; 560, (*pharmacol*)
August, A., *Am. J. Med. Technol.*, 1965, **31**, 271, (*metab*)
Rembaum, A. *et al.*, *Macromolecules*, 1972, **5**, 261, (*synth, polymer*)
Bridges, C.R. *et al.*, *J. Am. Soc. Nephrol.*, 1991, **1**, 1095, (*tox*)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, HCV500