



>>Entry Name: *N,N,N',N'*-Tetramethyl-1,4-butanediamine, 9CI
Synonym(s): 1,4-Bis(dimethylamino)butane. Tetramethylputrescine

CAS Registry Number: 111-51-3

$\text{Me}_2\text{N}(\text{CH}_2)_4\text{NMe}_2$

Molecular Formula: $\text{C}_8\text{H}_{20}\text{N}_2$

Molecular Weight: 144.259

Accurate Mass: 144.162648

Percentage Composition: C 66.61%; H 13.97%; N 19.42%

Biological Source: Constit. of *Duboisia leichhardtii*, *Duboisia myoporoides*, *Hyoscyamus muticus*, *Hyoscyamus reticulatus*, *Hyoscyamus niger*, *Oldenlandia affinis* and *Ruellia rosea* (Solanaceae, Rubiaceae, Acanthaceae)

Physical Description: Oil

Boiling Point: Bp 169°

Aldrich: 12710-8

Fluka: 14750

>>Derivative: Hydrochloride (1:2)

Melting Point: Mp 280° (273°)

>>Derivative: Dipicrate

Melting Point: Mp 197-200°

References:

- Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **1**, 498A, (nmr)
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 307A, (ir)
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 394D, (ir)
Willstätter, R. *et al.*, *Ber.*, 1907, **40**, 3869, (struct)
Konowalowa, R.A. *et al.*, *Arch. Pharm. (Weinheim, Ger.)*, 1928, **266**, 449; *CA*, **23**, 472, (isol)
Griffin, W.J., *Aust. J. Pharm.*, 1967, **48**, S20; *CA*, **67**, 79622u, (isol)
Coulson, J.F. *et al.*, *Planta Med.*, 1968, **16**, 174, (isol)
Veith, H.J. *et al.*, *Helv. Chim. Acta*, 1971, **54**, 653, (ms)
Gran, L., *J. Nat. Prod.*, 1973, **36**, 209, (isol, ms)
Johne, S. *et al.*, *Phytochemistry*, 1975, **14**, 2635, (isol, uv, ir, cmr, ms)