



>>Entry Name: *N,N,N',N'*-Tetramethylmethanediamine, 9CI

Synonym(s): Bis(dimethylamino)methane

CAS Registry Number: 51-80-9

Me2NCH2NMe2

Molecular Formula: $C_5H_{14}N_2$

Molecular Weight: 102.179

Accurate Mass: 102.115698

Percentage Composition: C 58.77%; H 13.81%; N 27.42%

Use/Importance: Modified Mannich reagent

Boiling Point: Bp 77° (85°)

Hazard & Toxicity: LD₅₀ (mus, ipr) 220 mg/kg

Aldrich: T2140-7

Fluka: 14790

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 488A, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 302B, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 387B, (ir)

v. Hirsch, H., *Chem. Ber.*, 1967, **100**, 1289, (synth)

Armitage, D.A. *et al.*, *J.C.S.(C)*, 1971, 2840, (synth)

Hancock, K.G. *et al.*, *Chem. Comm.*, 1973, 783, (synth)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1979, **7**, 359

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Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, TDR750