



>>Entry Name: Tetrakis(dimethylamino)ethylene

Synonym(s): Octamethylethenetetramine, 9CI

CAS Registry Number: 996-70-3

$(\text{Me}_2\text{N})_2\text{C}=\text{C}(\text{NMe}_2)_2$

Molecular Formula: $\text{C}_{10}\text{H}_{24}\text{N}_4$

Molecular Weight: 200.326

Accurate Mass: 200.200096

Percentage Composition: C 59.96%; H 12.08%; N 27.97%

Use/Importance: Powerful electron donor

Physical Description: Oil exhibiting green chemiluminescence on atmospheric oxidation

Boiling Point: Bp_1 50°

Other Data: Highly distorted molecule

Aldrich: 23423-0

Fluka: 87595

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 521C, (*nmr*)

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

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 412B, (*ir*)

Weingarten, H. *et al.*, *J.O.C.*, 1966, **31**, 3427, (*synth*)

Hammond, P.R. *et al.*, *J.A.C.S.*, 1967, **89**, 6063, (*use*)

Hoffmann, R.W., *Angew. Chem., Int. Ed.*, 1968, **7**, 754, (*synth, use*)

Wiberg, N., *Angew. Chem., Int. Ed.*, 1968, **7**, 766, (*synth, use*)

U.S. Pat., 1974, 3 824 289; *CA*, **81**, 77455, (*synth*)

Bock, H. *et al.*, *Angew. Chem., Int. Ed.*, 1991, **30**, 1678, (*cryst struct*)