



>>Entry Name: **2,2,3,3-Tetramethylbutane**

Synonym(s): Hexamethylethane. Bi-*tert*-butyl

CAS Registry Number: 594-82-1

$(\text{H}_3\text{C})_3\text{CC}(\text{CH}_3)_3$

Molecular Formula: C_8H_{18}

Molecular Weight: 114.23

Accurate Mass: 114.14085

Percentage Composition: C 84.12%; H 15.88%

Physical Description: Cryst. (Et_2O)

Melting Point: Mp 104°

Boiling Point: Bp 106-107°

Other Data: Volatile

Aldrich: H1140-8

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 16B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 12C, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 16B, (*ir*)

Whitmore, F.C. *et al.*, *J.A.C.S.*, 1933, **55**, 3807, (*synth*)

Flood, D.T. *et al.*, *J.A.C.S.*, 1934, **56**, 1211, (*synth*)

Raymonda, J.W. *et al.*, *J. Chem. Phys.*, 1967, **47**, 430, (*uv*)

Freitag, W. *et al.*, *Isr. J. Chem.*, 1980, **20**, 153, (*cmr*)

Herzschuh, R. *et al.*, *Int. J. Mass Spectrom. Ion Phys.*, 1981, **38**, 79, (*ms*)