



>>Entry Name: 1,1,4,4-Tetraphenyl-1,3-butadiene, 8Cl

Synonym(s): 1,1',1'',1'''-(1,3-Butadiene-1,4-diylidene)tetrakisbenzene, 9Cl

CAS Registry Number: 1450-63-1

$\text{Ph}_2\text{C}=\text{CHCH}=\text{CPh}_2$

Molecular Formula: $\text{C}_{28}\text{H}_{22}$

Molecular Weight: 358.482

Accurate Mass: 358.17215

Percentage Composition: C 93.81%; H 6.19%

Use/Importance: Fluorescence and luminescence much studied, used in scintillators etc.

Physical Description: Cryst. with bluish fluor. (C_6H_6)

Melting Point: Mp 205-206° (192-193°)

Aldrich: 17870-5

Fluka: 88020

Sigma: T4250

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 954C, (*ir*)

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **2**, 38C, (*nmr*)

Wittig, G. *et al.*, *Ber.*, 1928, **61**, 1627, (*synth*)

Bergmann, F. *et al.*, *J.A.C.S.*, 1949, **71**, 2968, (*uv*)

Kuhn, R. *et al.*, *Chem. Ber.*, 1960, **93**, 2285, (*synth*)

Kim, P.-J. *et al.*, *Bull. Chem. Soc. Jpn.*, 1968, **41**, 1184, (*synth*)

Sket, B. *et al.*, *Synth. Commun.*, 1976, **6**, 309, (*synth*)

Takagi, K. *et al.*, *Bull. Chem. Soc. Jpn.*, 1984, **57**, 3517, (*synth*)

Simes, B.E. *et al.*, *J.O.C.*, 1988, **53**, 4613, (*synth*)

Sasaki, K. *et al.*, *Bull. Chem. Soc. Jpn.*, 1993, **66**, 2446, (*synth*)