



>>Entry Name: 1,2-Diphenylethane

Synonym(s): 1,1'-(1,2-Ethanediy)bisbenzene, 9CI. Bibenzyl, 8CI. Dibenzyl

CAS Registry Number: 103-29-7

Extra CAS Registry Numbers(s): 38888-98-1

PhCH₂CH₂Ph

Molecular Formula: C₁₄H₁₄

Molecular Weight: 182.265

Accurate Mass: 182.10955

Percentage Composition: C 92.26%; H 7.74%

Melting Point: Mp 52°

Boiling Point: Bp 284°

Hazard & Toxicity: Fl. p. 129°, autoignition temp. 480°

Aldrich: B3370-6

Fluka: 14330

Supelco: 44-2231

>>Derivative: Bis-1,3,5-trinitrobenzene complex

Melting Point: Mp 102°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 8A, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 936A, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 855A, (ir)

Cruickshank, D.W.J., *Acta Cryst.*, 1949, **2**, 65, (cryst struct)

Kawaki, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 3130, (synth)

Bereznitskaya, V.F. *et al.*, *Zh. Fiz. Khim.*, 1972, **46**, 2492, (cryst struct)

Khvostenko, V.I. *et al.*, *Dokl. Akad. Nauk SSSR*, 1973, **213**, 1364, (ms)

North, A.M. *et al.*, *Spectrochim. Acta A*, 1974, **30**, 1317, (ir)

Kornilov, M.Yu. *et al.*, *Ukr. Khim. Zh. (Russ. edn.)*, 1974, **40**, 747, (pmr)

Kahr, B. *et al.*, *J.A.C.S.*, 1995, **117**, 4479, (cryst struct)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, BFX500