



>>Entry Name: 1,1,2,2-Tetraphenyl-1,2-ethanediol, 9CI

Synonym(s): Tetraphenylethylene glycol. Benzpinacol. Benzopinacol. Benzpinacone. α,α' -Bibenzhydrol

CAS Registry Number: 464-72-2

$\text{Ph}_2\text{C}(\text{OH})\text{C}(\text{OH})\text{Ph}_2$

Molecular Formula: $\text{C}_{26}\text{H}_{22}\text{O}_2$

Molecular Weight: 366.459

Accurate Mass: 366.16198

Percentage Composition: C 85.22%; H 6.05%; O 8.73%

Use/Importance: Catalyst for cross-linking of epoxy resins and for other polymerisation reactions

Physical Description: Prisms (C_6H_6 /petrol)

Melting Point: Mp 188-190 dec. $^\circ$

Aldrich: B980-7

Fluka: 88002

Rare Chemicals Library: S81457-1

>>Derivative: Di-Ac

CAS Registry Number: 13302-55-1

Molecular Formula: $\text{C}_{30}\text{H}_{26}\text{O}_4$

Molecular Weight: 450.533

Accurate Mass: 450.18311

Percentage Composition: C 79.98%; H 5.82%; O 14.20%

Physical Description: Cryst. (C_6H_6 /EtOH)

Melting Point: Mp 135-140 dec. $^\circ$

>>Derivative: Dibenzoyl

CAS Registry Number: 35154-87-1

Molecular Formula: $\text{C}_{40}\text{H}_{30}\text{O}_4$

Molecular Weight: 574.675

Accurate Mass: 574.21441

Percentage Composition: C 83.60%; H 5.26%; O 11.14%

Physical Description: Cryst. (C_6H_6 /EtOH)

Melting Point: Mp 149-155 dec. $^\circ$

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **2**, 338C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1126B, (*ir*)

Org. Synth., Coll. Vol., 2, 1943, 71, (*synth*)

Depovere, P. *et al.*, *Bull. Soc. Chim. Fr.*, 1968, 2470, (*synth, ir, pmr, uv*)

Shirafuji, T. *et al.*, *Tetrahedron*, 1971, **27**, 5353, (*derivs*)

Penn, J.H. *et al.*, *J.A.C.S.*, 1991, **113**, 1001, (*synth*)