



>>Entry Name: **2,5-Biphenyldiol**

Synonym(s): 2,5-Dihydroxybiphenyl. Phenylhydroquinone

CAS Registry Number: 1079-21-6

Extra CAS Registry Numbers(s): 26983-52-8

Molecular Formula: C₁₂H₁₀O₂

Molecular Weight: 186.21

Accurate Mass: 186.06808

Percentage Composition: C 77.40%; H 5.41%; O 17.18%

Use/Importance: Comonomer in the prepn. of liq. cryst. polyesters

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 96-98°

Aldrich: 22781-1

Fluka: 78723

>>Derivative: Di-Ac

CAS Registry Number: 58244-28-3

Molecular Formula: C₁₆H₁₄O₄

Molecular Weight: 270.284

Accurate Mass: 270.08921

Percentage Composition: C 71.10%; H 5.22%; O 23.68%

Use/Importance: Comonomer in the prepn. of liq. cryst. polyesters

Melting Point: Mp 73°

>>Derivative: 5-Me ether

Synonym(s): 2-Hydroxy-5-methoxybiphenyl. 4-Methoxy-2-phenylphenol

CAS Registry Number: 13522-82-2

Molecular Formula: C₁₃H₁₂O₂

Molecular Weight: 200.237

Accurate Mass: 200.08373

Percentage Composition: C 77.98%; H 6.04%; O 15.98%

Physical Description: Oil

Boiling Point: Bp_{0.1} 116°

Refractive Index: n_D²³ 1.6140

>>Derivative: Di-Me ether

Synonym(s): 2,5-Dimethoxybiphenyl

CAS Registry Number: 54113-30-3

Molecular Formula: C₁₄H₁₄O₂

Molecular Weight: 214.263

Accurate Mass: 214.09938

Percentage Composition: C 78.48%; H 6.59%; O 14.93%

Physical Description: Oil

References:

- Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **1**, 1117A, (*ir*)
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Hutzinger, O. *et al.*, *J. Chromatogr.*, 1974, **97**, 233, (*tlc*)
Ludwiczak, R.S. *et al.*, *Pol. J. Chem. (Rocz. Chem.)*, 1975, **49**, 1767, (*synth*)
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Petrillo, G. *et al.*, *Tetrahedron*, 1990, **46**, 7977, (*Me ether, synth, ir, pmr*)
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