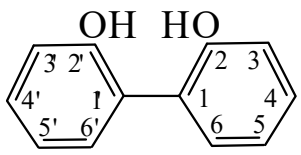
>>**Entry Name: 2,2'-Biphenyldiol**
Synonym(s): [1,1'-Biphenyl]-2,2'-diol, 9CI. 2,2'-Dihydroxybiphenyl. *o,o*'-Diphenol



CAS Registry Number: 1806-29-7
Extra CAS Registry Numbers(s): 26983-52-8

Molecular Formula: $C_{12}H_{10}O_2$
Molecular Weight: 186.21
Accurate Mass: 186.06808
Percentage Composition: C 77.40%; H 5.41%; O 17.18%
Use/Importance: Monomer for polyesters
Physical Description: Prisms (toluene); hydrated cryst. (H_2O)
Melting Point: Mp 109° (anhyd.). Mp 73-75° (hydrate)
Boiling Point: Bp 325-326°
pKa Value: pK_{a1} 7.56; pK_{a2} 11.8 (25°, H_2O) pK_{a1} 8; pK_{a2} 12.2 (20°, 50% MeOH aq.)
Hazard & Toxicity: LD_{50} (mus, ipr) 150 mg/kg

Aldrich: 11581-9
Fluka: 37620
Sigma: B6509

>>**Derivative:** Di-Ac

CAS Registry Number: 65594-67-4
Molecular Formula: $C_{16}H_{14}O_4$
Molecular Weight: 270.284
Accurate Mass: 270.08921
Percentage Composition: C 71.10%; H 5.22%; O 23.68%
Melting Point: Mp 95°

>>**Derivative:** Mono-Me ether
Synonym(s): 2-Hydroxy-2'-methoxybiphenyl. 2'-Methoxy-[1,1'-biphenyl]-2-ol

CAS Registry Number: 3594-88-5
Molecular Formula: $C_{13}H_{12}O_2$
Molecular Weight: 200.237
Accurate Mass: 200.08373
Percentage Composition: C 77.98%; H 6.04%; O 15.98%
Physical Description: Cryst. (AcOH aq.)
Melting Point: Mp 73-74°
Boiling Point: $Bp_{0.05}$ 85°
pKa Value: pK_{a1} 11.32 (20°,50% MeOH aq.) pK_{a1} 10.4 (20°)

>>**Derivative:** Di-Me ether
Synonym(s): 2,2'-Dimethoxybiphenyl. *o,o*'-Dianisole

CAS Registry Number: 4877-93-4
Molecular Formula: $C_{14}H_{14}O_2$
Molecular Weight: 214.263
Accurate Mass: 214.09938
Percentage Composition: C 78.48%; H 6.59%; O 14.93%
Physical Description: Prisms (EtOH)
Melting Point: Mp 155°
Boiling Point: Bp 307-308°
Rare Chemicals Library: S83756-3

References: