



>>Entry Name: 4-Fluoro-4'-hydroxybiphenyl

Synonym(s): 4'-Fluoro-[1,1'-biphenyl]-4-ol, 9CI. 4-(4-Fluorophenyl)phenol

CAS Registry Number: 324-94-7

Structure by analogy with 2-Fluoro-2'-hydroxybiphenyl, [NWB74-M](#)

Molecular Formula: C₁₂H₉FO

Molecular Weight: 188.201

Accurate Mass: 188.063743

Percentage Composition: C 76.58%; H 4.82%; F 10.09%; O 8.50%

Physical Description: Cryst. (EtOAc/hexane)

Melting Point: Mp 168-169°

>>Derivative: Me ether

Synonym(s): 4-Fluoro-4'-methoxybiphenyl

CAS Registry Number: 450-39-5

Molecular Formula: C₁₃H₁₁FO

Molecular Weight: 202.228

Accurate Mass: 202.079393

Percentage Composition: C 77.21%; H 5.48%; F 9.39%; O 7.91%

Physical Description: Prisms (EtOH)

Melting Point: Mp 90-91°

References:

Jones, B. *et al.*, *J.C.S.*, 1954, 1775, (*Me ether, synth*)

Lourak, M. *et al.*, *J.O.C.*, 1989, **54**, 4844, (*synth, ir, pmr*)

Jendralla, H. *et al.*, *Synthesis*, 1990, 827, (*synth, pmr, ms*)