



>>Entry Name: 4-Benzoylbiphenyl

Synonym(s): [1,1'-Biphenyl]-4-ylphenylmethanone, 9Cl. 4-Phenylbenzophenone, 8Cl. Phenyl *p*-xenyl ketone

CAS Registry Number: 2128-93-0

Molecular Formula: C₁₉H₁₄O

Molecular Weight: 258.319

Accurate Mass: 258.104465

Percentage Composition: C 88.34%; H 5.46%; O 6.19%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 103°

Boiling Point: Bp_{0.1} 156-158°

Aldrich: B1260-1

Rare Chemicals Library: S5918-9

>>Derivative: Oxime

CAS Registry Number: 75158-96-2

Molecular Formula: C₁₉H₁₅NO

Molecular Weight: 273.334

Accurate Mass: 273.115364

Percentage Composition: C 83.49%; H 5.53%; N 5.12%; O 5.85%

Physical Description: Needles (EtOH)

Melting Point: Mp 195-196°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 886C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 58D, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1265C, (*ir*)

Hey, D.H. *et al.*, *J.C.S.*, 1936, 802, (*synth*)

Long, L.M. *et al.*, *J.A.C.S.*, 1941, **63**, 1939, (*synth*)

Porter, G. *et al.*, *Trans. Faraday Soc.*, 1965, **61**, 1664, (*uv*)

Bursey, M.M. *et al.*, *J.A.C.S.*, 1966, **88**, 529, (*ms*)