



>>Entry Name: 4-Acetylbiphenyl

Synonym(s): 1-[1,1'-Biphenyl]-4-ylethanone, 9Cl. 4'-Phenylacetophenone, 8Cl

CAS Registry Number: 92-91-1

Molecular Formula: C₁₄H₁₂O

Molecular Weight: 196.248

Accurate Mass: 196.088815

Percentage Composition: C 85.68%; H 6.16%; O 8.15%

Physical Description: Cryst. (EtOH or Me₂CO)

Melting Point: Mp 120-121°

Boiling Point: Bp 325-327°. Bp₃ 130-140°

Aldrich: 12272-6

Fluka: 939

Sigma: A6000

>>Derivative: Oxime

CAS Registry Number: 75408-89-8

Molecular Formula: C₁₄H₁₃NO

Molecular Weight: 211.263

Accurate Mass: 211.099714

Percentage Composition: C 79.59%; H 6.20%; N 6.63%; O 7.57%

Melting Point: Mp 184-186°

>>Derivative: Phenylhydrazone

Melting Point: Mp 189°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 821B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 18A, (*ir*)

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

Byron, D.J. *et al.*, *J.C.S.(C)*, 1966, 940, (*synth*)

Twine, C.E. *et al.*, *J.O.C.*, 1974, **39**, 1290, (*uv, ir, ms*)

Schulman, E.M. *et al.*, *J.O.C.*, 1974, **39**, 2686, (*cmr*)

Idoux, J.P. *et al.*, *J.O.C.*, 1980, **45**, 441, (*pmr*)