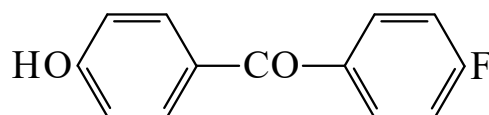




>>Entry Name: 4-Fluoro-4'-hydroxybenzophenone

Synonym(s): (4-Fluorophenyl)(4-hydroxyphenyl)methanone, 9CI



CAS Registry Number: 25913-05-7

Related CAS Registry Numbers(s): 76597-40-5 88164-67-4

Molecular Formula: C₁₃H₉FO₂

Molecular Weight: 216.211

Accurate Mass: 216.058658

Percentage Composition: C 72.22%; H 4.20%; F 8.79%; O 14.80%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 170-172°

Aldrich: 27422-4

>>Derivative: Me ether

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

CAS Registry Number: 345-89-1

Molecular Formula: C₁₄H₁₁FO₂

Molecular Weight: 230.238

Accurate Mass: 230.074308

Percentage Composition: C 73.03%; H 4.82%; F 8.25%; O 13.90%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 97° (94°)

Boiling Point: Bp_{1.3} 148-152° (lit. gives a pressure range)

>>Derivative: Me ether, 2,4-dinitrophenylhydrazone

Melting Point: Mp 227-228°

>>Derivative: Ph ether

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

CAS Registry Number: 16574-56-4

Molecular Formula: C₁₉H₁₃FO₂

Molecular Weight: 292.309

Accurate Mass: 292.089958

Percentage Composition: C 78.07%; H 4.48%; F 6.50%; O 10.95%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 101.5° (99°)

Boiling Point: Bp_{0.38} 180-182°

References:

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Dayal, S.K. *et al.*, *J.A.C.S.*, 1972, **94**, 9113, (*F-19 nmr, deriv*)

Shapiro, M.J., *Tetrahedron*, 1977, **33**, 1091, (*cmr, deriv*)

Ridd, J.H. *et al.*, *J.C.S. Perkin 2*, 1988, 1729, (*synth*)