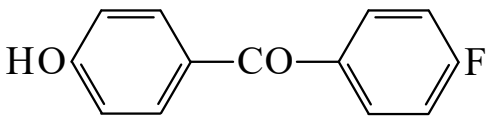
>>**Entry Name: 4-Fluoro-4'-hydroxybenzophenone**
Synonym(s): (4-Fluorophenyl)(4-hydroxyphenyl)methanone, 9CI



CAS Registry Number: 25913-05-7
Related CAS Registry Numbers(s): 76597-40-5 88164-67-4

Molecular Formula: $C_{13}H_9FO_2$
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: $C_{14}H_{11}FO_2$
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: $C_{19}H_{13}FO_2$
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:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **3**, 1273A
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)*