>>**Entry Name: 4-Fluorobenzophenone**
Synonym(s): 4-Fluorophenylphenylmethanone, 9CI. 4-Fluorophenyl phenyl ketone

CAS Registry Number: 345-83-5
Structure by analogy with 2-Fluorobenzophenone, DTM78-S

Molecular Formula: $C_{13}H_9FO$
Molecular Weight: 200.212
Accurate Mass: 200.063743
Percentage Composition: C 77.99%; H 4.53%; F 9.49%; O 7.99%
Physical Description: Cryst. (petrol)
Melting Point: Mp 48.2-48.7° (43-45°)
Boiling Point: Bp_{13} 159-161°

Aldrich: F720-2

>>**Derivative:** Oxime

Molecular Formula: $C_{13}H_{10}FNO$
Molecular Weight: 215.226
Accurate Mass: 215.074642
Percentage Composition: C 72.55%; H 4.68%; F 8.83%; N 6.51%; O 7.43%
Melting Point: Mp 135°

>>**Derivative:** Phenylhydrazone

Melting Point: Mp 105°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 60D, *(ir)*
Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 888A, *(nmr)*
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Bergmann, E. *et al.*, *J. Prakt. Chem.*, 1933, **135**, 245-266, *(synth, oxime)*
Moriconi, E.J. *et al.*, *J.A.C.S.*, 1952, **84**, 3928-3934, *(uv, ir)*
Adams, D.J. *et al.*, *Synth. Commun.*, 1998, **28**, 4295-4301, *(synth, ms, F-19 nmr)*