



>>Entry Name: 1-(4-Fluorophenyl)-2-propanone, 9CI

Synonym(s): (*p*-Fluorophenyl)acetone. *p*-Fluorobenzyl methyl ketone

CAS Registry Number: 459-03-0

Structure by analogy with 1-(2-Fluorophenyl)-2-propanone, [JLG81-U](#)

Molecular Formula: C₉H₉FO

Molecular Weight: 152.168

Accurate Mass: 152.063743

Percentage Composition: C 71.04%; H 5.96%; F 12.49%; O 10.51%

Physical Description: Light yellow oil

Boiling Point: Bp₃₀ 120-130°. Bp_{0.12} 72-73°

Density: d₄²⁰ 1.107

Refractive Index: n_D²⁰ 1.4965 n_D²⁵ 1.4930

Aldrich: 20945-7

Fluka: 47287

>>Derivative: Semicarbazone

Melting Point: Mp 200-201.5°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 793A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 4C, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1225A, (*ir*)

Suter, C.M. *et al.*, *J.A.C.S.*, 1941, **63**, 602, (*synth, deriv*)

Ando, T., *Yuki Gosei Kagaku Kyokaishi*, 1959, **17**, 777; *CA*, **54**, 4492f, (*synth*)

Adcock, W. *et al.*, *Aust. J. Chem.*, 1970, **23**, 1921, (*synth, pmr*)

Adcock, W. *et al.*, *J.O.C.*, 1976, **41**, 1498, (*cmr*)