



>>Entry Name: 3'-Fluoro-4'-hydroxyacetophenone, 8Cl

Synonym(s): 1-(3-Fluoro-4-hydroxyphenyl)ethanone, 9Cl. 4-Acetyl-2-fluorophenol

CAS Registry Number: 403-14-5

Structure by analogy with 2'-Fluoro-4'-hydroxyacetophenone, [NTZ29-X](#)

Molecular Formula: C₈H₇FO₂

Molecular Weight: 154.141

Accurate Mass: 154.043008

Percentage Composition: C 62.34%; H 4.58%; F 12.33%; O 20.76%

Physical Description: Cryst. (EtOAc/petrol or CHCl₃/CCl₄ or C₆H₆)

Melting Point: Mp 127-129° (125-126.6°)

Boiling Point: Bp₂ 125-135°

>>Derivative: Me ether

Synonym(s): 3'-Fluoro-4'-methoxyacetophenone, 8Cl

CAS Registry Number: 455-91-4

Molecular Formula: C₉H₉FO₂

Molecular Weight: 168.167

Accurate Mass: 168.058658

Percentage Composition: C 64.28%; H 5.39%; F 11.30%; O 19.03%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 92-94°

Boiling Point: Bp₂₀ 147-148°

References:

English, J. *et al.*, *J.A.C.S.*, 1940, **62**, 350, (*synth, Me ether*)

Minor, J.T. *et al.*, *J.O.C.*, 1952, **17**, 1425-1430, (*synth, Me ether*)

Buu-Hoi, N.P. *et al.*, *J.O.C.*, 1953, **18**, 910-915, (*synth*)

May, S.W. *et al.*, *Biochemistry*, 1978, **17**, 1853, (*synth, Me ether*)

Leclerc, G. *et al.*, *J. Med. Chem.*, 1980, **23**, 738, (*synth*)

Pillay, M.K. *et al.*, *J. Indian Chem. Soc.*, 1987, **64**, 257; 610, (*pmr, uv, Me ether*)

Kelly, S.M., *Helv. Chim. Acta*, 1989, **72**, 594, (*synth, ir*)

Stavber, S. *et al.*, *Chem. Comm.*, 2000, 1323-1324, (*synth*)