



>>Entry Name: 2'-Hydroxy-4'-methylacetophenone

Synonym(s): 1-(2-Hydroxy-4-methylphenyl)ethanone, 9Cl. 6-Acetyl-*m*-cresol. Methyl 2-hydroxy-*p*-tolyl ketone

CAS Registry Number: 6921-64-8

Molecular Formula: C₉H₁₀O₂

Molecular Weight: 150.177

Accurate Mass: 150.06808

Percentage Composition: C 71.98%; H 6.71%; O 21.31%

Biological Source: Constit. of *Clematis* sp., *Ligusticum* sp. and *Eupatorium stoechadosmum*

Melting Point: Mp 21°

Boiling Point: Bp 245°. Bp_{0.6} 82-84°

Density: d¹³ 1.1

>>Derivative: (E)-Oxime

CAS Registry Number: 25172-51-4

Molecular Formula: C₉H₁₁NO₂

Molecular Weight: 165.191

Accurate Mass: 165.078979

Percentage Composition: C 65.44%; H 6.71%; N 8.48%; O 19.37%

Melting Point: Mp 103°

>>Derivative: Semicarbazone

Physical Description: Needles (EtOH)

Melting Point: Mp 218-220°

>>Derivative: Me ether

Synonym(s): 2'-Methoxy-4'-methylacetophenone

CAS Registry Number: 35633-35-3

Molecular Formula: C₁₀H₁₂O₂

Molecular Weight: 164.204

Accurate Mass: 164.08373

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Melting Point: Mp 37°

Boiling Point: Bp 265°. Bp₁₀ 125-126°

References:

Julia, M. *et al.*, *Bull. Soc. Chim. Fr.*, 1962, 2255, (*synth*)

Yoshino, T. *et al.*, *CA*, 1963, **59**, 7416, (*synth*)

Bisanz, T. *et al.*, *Pol. J. Chem. (Rocz. Chem.)*, 1973, **47**, 2279, (*nmr*)

Tanaka, J. *et al.*, *Bull. Chem. Soc. Jpn.*, 1989, **62**, 2102, (*synth, pmr*)

Khan, M.S.Y. *et al.*, *Indian J. Chem., Sect. B*, 1990, **29**, 1067, (*synth*)