



>>Entry Name: 4'-Hydroxy-3'-methylacetophenone

Synonym(s): 1-(4-Hydroxy-3-methylphenyl)ethanone, 9CI. 4-Acetyl-*o*-cresol. Methyl 4-hydroxy-*m*-tolyl ketone

CAS Registry Number: 876-02-8

Molecular Formula: C₉H₁₀O₂

Molecular Weight: 150.177

Accurate Mass: 150.06808

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

Physical Description: Prisms (H₂O or MeOH aq.)

Melting Point: Mp 108°

Aldrich: H3800-4

Sigma: H4780

>>Derivative: Oxime

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%

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 152°

>>Derivative: Ac

CAS Registry Number: 18625-79-1

Molecular Formula: C₁₁H₁₂O₃

Molecular Weight: 192.214

Accurate Mass: 192.078645

Percentage Composition: C 68.74%; H 6.29%; O 24.97%

Physical Description: Cryst. (heptane)

Melting Point: Mp 61°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 863A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 45B, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1261B, (*ir*)

d'Ans, J. *et al.*, *Chem. Ber.*, 1952, **85**, 585

Battzly, R. *et al.*, *J.A.C.S.*, 1955, **77**, 2522

Moraglio, G. *et al.*, *Chim. Ind. (Milan)*, 1968, **50**, 779

Maurin, J.K., *Acta Cryst. C*, 1994, **50**, 1354, (*cryst struct, oxime*)