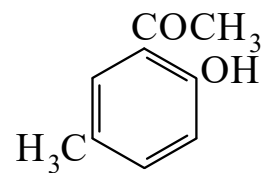




>>Entry Name: 2'-Hydroxy-5'-methylacetophenone

Synonym(s): 1-(2-Hydroxy-5-methylphenyl)ethanone, 9CI. 2-Acetyl-*p*-cresol. Methyl 6-hydroxy-*m*-tolyl ketone



CAS Registry Number: 1450-72-2

Molecular Formula: C₉H₁₀O₂

Molecular Weight: 150.177

Accurate Mass: 150.06808

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

Use/Importance: Flavouring for coffee and tobacco

Physical Description: Prisms (petrol or MeOH aq.)

Melting Point: Mp 50°

Boiling Point: Bp₂₀ 120-125°

Aldrich: H3760-1

Sigma: H6155

>>Derivative: Oxime

CAS Registry Number: 3973-90-8

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: Needles (EtOH)

Melting Point: Mp 145°

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 22020-96-8

Melting Point: Mp 273-273.5°

>>Derivative: Semicarbazone

CAS Registry Number: 51040-40-5

Molecular Formula: C₁₀H₁₃N₃O₂

Molecular Weight: 207.232

Accurate Mass: 207.100777

Percentage Composition: C 57.96%; H 6.32%; N 20.28%; O 15.44%

Use/Importance: Used as a 0.5% soln. in EtOH as a metallochromic indicator for titrimetric detn. of Fe(II)

Physical Description: Needles (EtOH)

Melting Point: Mp 212°

>>Derivative: Thiosemicarbazone

CAS Registry Number: 51089-88-4

Molecular Formula: C₁₀H₁₃N₃OS

Molecular Weight: 223.298

Accurate Mass: 223.077932

Percentage Composition: C 53.79%; H 5.87%; N 18.82%; O 7.17%; S 14.36%

Use/Importance: Used for photometric detn. of Fe(III) (λ_{max} 645 nm)

Physical Description: Yellow cryst. (AcOH)