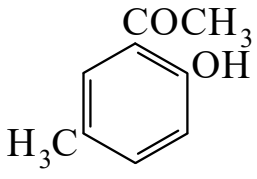
>>**Entry Name: 2'-Hydroxy-5'-methylacetophenone**
Synonym(s): 1-(2-Hydroxy-5-methylphenyl)ethanone, 9CI. 2-Acetyl-*p*-cresol. Methyl 6-hydroxy-*m*-tolyl ketone



CAS Registry Number: 1450-72-2

Molecular Formula: $C_9H_{10}O_2$
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: Bp_{20} 120-125°

Aldrich: H3760-1
Sigma: H6155

>>**Derivative:** Oxime

CAS Registry Number: 3973-90-8
Molecular Formula: $C_9H_{11}NO_2$
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: $C_{10}H_{13}N_3O_2$
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: $C_{10}H_{13}N_3OS$
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)