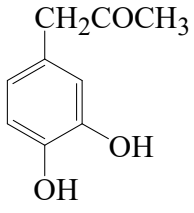
>>**Entry Name: 1-(3,4-Dihydroxyphenyl)-2-propanone**
Synonym(s): 3,4-Dihydroxyphenylacetone



CAS Registry Number: 2503-44-8
Type of Compound Code(s): WG4500 WI8000 WA2800

Molecular Formula: $C_9H_{10}O_3$
Molecular Weight: 166.176
Accurate Mass: 166.062995
Percentage Composition: C 65.05%; H 6.07%; O 28.88%
Biological Source: Isol. from *Chrysanthemum morifolium*
Use/Importance: A component of tobacco and wood smokes, present in smoked meats. Metabolite of 2-Amino-3-(3,4-dihydroxyphenyl)-2-methylpropanoic acid BDS26-B and *N*,α-Dimethyl-3,4-(methylenedioxy)phenethylamine NCZ31-D

>>**Derivative:** 3'-Me ether
Synonym(s): 1-(4-Hydroxy-3-methoxyphenyl)-2-propanone, 9Cl. Guaiacylacetone. Methyl vanillyl ketone

CAS Registry Number: 2503-46-0
Molecular Formula: $C_{10}H_{12}O_3$
Molecular Weight: 180.203
Accurate Mass: 180.078645
Percentage Composition: C 66.65%; H 6.71%; O 26.64%
Source/Synthesis: Hibbert ketone obt. by ethanolysis of coniferous lignin
Physical Description: Oil
Boiling Point: Bp_4 155°. $Bp_{0.2}$ 115°
Aldrich: 41065-9

>>**Derivative:** 3'-Me ether, 2,4-dinitrophenylhydrazone

Physical Description: Orange needles (EtOH)
Melting Point: Mp 125°

>>**Derivative:** Di-Me ether
Synonym(s): 1-(3,4-Dimethoxyphenyl)-2-propanone

CAS Registry Number: 776-99-8
Molecular Formula: $C_{11}H_{14}O_3$
Molecular Weight: 194.23
Accurate Mass: 194.094295
Percentage Composition: C 68.02%; H 7.26%; O 24.71%
Physical Description: Yellow oil
Boiling Point: $Bp_{0.15}$ 93°
Refractive Index: n_D^{20} 1.5358
Aldrich: 14121-6

>>**Derivative:** 5'-Methoxy, 3'-Me ether
Synonym(s): 1-(4-Hydroxy-3,5-dimethoxyphenyl)-2-propanone. **Syringylacetone**

CAS Registry Number: 19037-58-2
Molecular Formula: $C_{11}H_{14}O_4$
Molecular Weight: 210.229
Accurate Mass: 210.08921
Percentage Composition: C 62.85%; H 6.71%; O 30.44%
Source/Synthesis: Hibbert ketone obt. by ethanolysis of lignin
Other Data: Not to be confused with syringalacetones A and B

References: