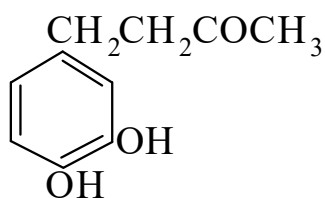




>>Entry Name: 4-(3,4-Dihydroxyphenyl)-2-butanone, 9CI
ENTRY UNDER REVIEW



CAS Registry Number: 61152-62-3
Type of Compound Code(s): VG0010

Molecular Formula: C₁₀H₁₂O₃
Molecular Weight: 180.203
Accurate Mass: 180.078645
Percentage Composition: C 66.65%; H 6.71%; O 26.64%
Biological Source: Metab. of the birds-nest fungus *Nidula niveo-tomentosa*
Physical Description: Prisms (Et₂O/petrol)
Melting Point: Mp 88-90° (85.5-86°)
Boiling Point: Bp₈ 220-221°. Subl._{0.05} 110°

>>Derivative: 3-*O*-β-D-Glucopyranoside
Synonym(s): Myzodendrone

CAS Registry Number: 101705-37-7
Type of Compound Code(s): WI3500 WA2800
Molecular Formula: C₁₆H₂₂O₈
Molecular Weight: 342.345
Accurate Mass: 342.13147
Percentage Composition: C 56.14%; H 6.48%; O 37.39%
Source/Synthesis: Isol. from hemiparasite *Myzodendron punctulatum* and from raspberries
Use/Importance: Antibacterial agent
Physical Description: Pale yellow cryst. (EtOH/EtOAc)
Melting Point: Mp 120-123°

>>Derivative: 4-*O*-[4-Hydroxybenzoyl-(→2)-β-D-glucopyranoside]
Synonym(s): Vitexfolin C

Molecular Formula: C₂₃H₂₆O₁₀
Molecular Weight: 462.452
Accurate Mass: 462.1526
Percentage Composition: C 59.74%; H 5.67%; O 34.60%
Biological Source: Constit. of the dried fruit of *Vitex rotundifolia*
Physical Description: Amorph. yellow powder
UV: [neutral] λ_{max} 260 (); 272 (sh) (); 325 (sh) () (EtOH)

>>Derivative: 4-*O*-[3,4-Dihydroxy-*E*-cinnamoyl-(→6)-β-D-glucopyranoside]
Synonym(s): Vitexfolin A

Molecular Formula: C₂₅H₂₈O₁₁
Molecular Weight: 504.49
Accurate Mass: 504.163165
Percentage Composition: C 59.52%; H 5.59%; O 34.89%
Biological Source: Constit. of *Pinus contorta* and the dried fruit of *Vitex rotundifolia*
Physical Description: Dark yellow powder
Optical Rotation: [α]_D²⁷ -18 (c, 0.1 in MeOH)
UV: [neutral] λ_{max} 217 (log ε 4.32); 246 (log ε 4.01); 287 (log ε 4.04); 304 (sh) (log ε 4.08); 330 (log ε 4.2) (MeOH)

>>Derivative: 4-*O*-[3,4-Dihydroxy-*Z*-cinnamoyl-(→6)-β-D-glucopyranoside]
Synonym(s): Vitexfolin B

Molecular Formula: C₂₅H₂₈O₁₁
Molecular Weight: 504.49
Accurate Mass: 504.163165
Percentage Composition: C 59.52%; H 5.59%; O 34.89%
Biological Source: Constit. of the dried fruit of *Vitex rotundifolia*
Other Data: Unstable