



Molecular Weight: 282.382
Accurate Mass: 282.16198
Percentage Composition: C 80.82%; H 7.85%; O 11.33%
Biological Source: Constit. of the seeds of *Alpinia katsumadai*
Physical Description: Needles (C₆H₆/hexane)
Melting Point: Mp 75-77°
Optical Rotation: $[\alpha]_D^{23} +25.19$ (c, 0.63 in EtOH)
Other Data: Has *S,S*-config

>>Derivative: 1,2-Didehydro, 3-ketone(*E*-)
Synonym(s): 5-Hydroxy-1,7-diphenyl-1-hepten-3-one. **Yashabushiketol**

CAS Registry Number: 24192-00-5
Type of Compound Code(s): VG7000
Molecular Formula: C₁₉H₂₀O₂
Molecular Weight: 280.366
Accurate Mass: 280.14633
Percentage Composition: C 81.40%; H 7.19%; O 11.41%
Biological Source: Constit. of male flowers of *Alnus sieboldiana* and *Alnus firma*
Physical Description: Needles (hexane)
Melting Point: Mp 59.5-60.5°
Optical Rotation: $[\alpha]_D^{20} +29$ (c, 1.05 in CHCl₃)

>>Derivative: 1,2-Didehydro, 4'-hydroxy, 5-ketone (*E*-)
Synonym(s): 5-Hydroxy-1-(4-hydroxyphenyl)-7-phenyl-6-hepten-3-one

Type of Compound Code(s): VG7000
Molecular Formula: C₁₉H₂₀O₃
Molecular Weight: 296.365
Accurate Mass: 296.141245
Percentage Composition: C 77.00%; H 6.80%; O 16.20%
Biological Source: Constit. of *Alpinia katsumadai*
Physical Description: Oil
Optical Rotation: $[\alpha]_D +10.7$ (c, 0.1 in CHCl₃)

>>Derivative: 6,7-Didehydro, 3-ketone(*E*-)
Synonym(s): **5-Hydroxy-1,7-diphenyl-6-hepten-3-one**

CAS Registry Number: 87095-74-7
Type of Compound Code(s): VG7000
Molecular Formula: C₁₉H₂₀O₂
Molecular Weight: 280.366
Accurate Mass: 280.14633
Percentage Composition: C 81.40%; H 7.19%; O 11.41%
Biological Source: Constit. of seeds of *Alpinia katsumadai*. Also from *Curcuma comosa*
Physical Description: Yellow needles (C₆H₆/hexane)
Melting Point: Mp 59.5-60.5°
Optical Rotation: $[\alpha]_D^{23} +17.8$ (c, 0.67 in EtOH)
UV: [neutral] $\lambda_{\max}$ 251 (log ϵ 4.31); 283 (log ϵ 3.61); 292 (log ϵ 3.43) (MeOH)
Other Data: Has *R*-config

>>Derivative: 1,2:6,7-Tetradehydro, 3-ketone(*E,E*-)
Synonym(s): **5-Hydroxy-1,7-diphenyl-4,6-heptadien-3-one**

CAS Registry Number: 87095-77-0
Extra CAS Registry Numbers(s): 93559-31-0
Type of Compound Code(s): VG7000
Molecular Formula: C₁₉H₂₀O₂
Molecular Weight: 280.366
Accurate Mass: 280.14633
Percentage Composition: C 81.40%; H 7.19%; O 11.41%
Biological Source: Constit. of *Alpinia katsumadai*
Physical Description: Orange-yellow needles (hexane)
Melting Point: Mp 74-75°
Other Data: Has *R*-config

>>Derivative: 3-Deoxy