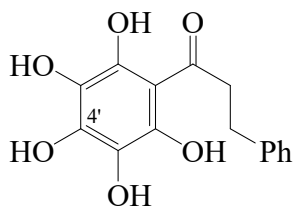




>>Entry Name: 1-(2,3,4,5,6-Pentahydroxyphenyl)-3-phenyl-1-propanone

Synonym(s): 2',3',4',5',6'-Pentahydroxydihydrochalcone



Molecular Formula: C₁₅H₁₄O₆

Molecular Weight: 290.272

Accurate Mass: 290.07904

Percentage Composition: C 62.07%; H 4.86%; O 33.07%

>>Derivative: 2',4',5'-Tri-Me ether

Synonym(s): 2',5'-Dihydroxy-3',4',6'-trimethoxydihydrochalcone. **Dihydropedicin. Kwangsienin B**

CAS Registry Number: 169234-89-3

Molecular Formula: C₁₈H₂₀O₆

Molecular Weight: 332.352

Accurate Mass: 332.12599

Percentage Composition: C 65.05%; H 6.07%; O 28.88%

Biological Source: Constit. of the bark of *Fissistigma kwangsiense* and *Fissistigma lanuginosum*

Physical Description: Yellow cryst. (petrol)

Melting Point: Mp 86°

>>Derivative: 2',4',6'-Tri-Me ether

Synonym(s): 1-(3,5-Dihydroxy-2,4,6-trimethoxyphenyl)-3-phenyl-1-propanone. 3',5'-Dihydroxy-2',4',6'-trimethoxydihydrochalcone

Molecular Formula: C₁₈H₂₀O₆

Molecular Weight: 332.352

Accurate Mass: 332.12599

Percentage Composition: C 65.05%; H 6.07%; O 28.88%

Biological Source: Constit. of *Lindera lucida*

Physical Description: Yellow solid (hexane)

Melting Point: Mp 108-110°

UV: [neutral] λ_{max} 286 (); 358 () (EtOH)

>>Derivative: 2',3',4',5'-Tetra-Me ether

Synonym(s): 1-(2-Hydroxy-3,4,5,6-tetramethoxyphenyl)-3-phenyl-1-propanone. 2'-Hydroxy-3',4',5',6'-tetramethoxydihydrochalcone. **Dihydrokanakugiol**

CAS Registry Number: 117842-21-4

Molecular Formula: C₁₉H₂₂O₆

Molecular Weight: 346.379

Accurate Mass: 346.14164

Percentage Composition: C 65.88%; H 6.40%; O 27.71%

Biological Source: Constit. of *Lindera lucida* and *Lindera erythrocarpa*

Physical Description: Viscous oil

UV: [neutral] λ_{max} 214 (); 282 (); 347 () (EtOH)

References:

Ichino, K. *et al.*, *J. Nat. Prod.*, 1988, **51**, 915-917, (*Dihydrokanakugiol*)

Alias, Y. *et al.*, *J. Nat. Prod.*, 1995, **58**, 1160, (*Dihydropedicin*)

Hao, X., *CA*, 1996, **124**, 170634f, (*Kwangsienin B*)

Leong, Y.-W. *et al.*, *Phytochemistry*, 1998, **47**, 891-894, (*isol, uv, pmr, cmr, ms*)