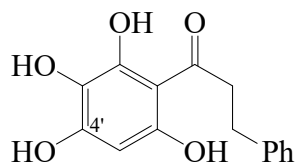




>>Entry Name: 3-Phenyl-1-(2,3,4,6-tetrahydroxyphenyl)-1-propanone

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



**Molecular Formula:** C<sub>15</sub>H<sub>14</sub>O<sub>5</sub>

**Molecular Weight:** 274.273

**Accurate Mass:** 274.084125

**Percentage Composition:** C 65.69%; H 5.14%; O 29.17%

>>Derivative: 3',4'-Di-Me ether

Synonym(s): 2',6'-Dihydroxy-3',4'-dimethoxydihydrochalcone. **Dihdropashanone**

**CAS Registry Number:** 41997-41-5

**Molecular Formula:** C<sub>17</sub>H<sub>18</sub>O<sub>5</sub>

**Molecular Weight:** 302.326

**Accurate Mass:** 302.115425

**Percentage Composition:** C 67.54%; H 6.00%; O 26.46%

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

**Physical Description:** Prisms (CHCl<sub>3</sub>)

**Melting Point:** Mp 130-132°

**UV:** [neutral] λ<sub>max</sub> 212 (); 233 (sh) (); 284 (); 381 () (EtOH)

>>Derivative: 3',6'-Di-Me ether, 4'-O-[β-D-glucopyranosyl-(1→6)-β-D-glucopyranoside]

Synonym(s): **Salicifolioside A**

**Molecular Formula:** C<sub>29</sub>H<sub>38</sub>O<sub>15</sub>

**Molecular Weight:** 626.61

**Accurate Mass:** 626.221075

**Percentage Composition:** C 55.59%; H 6.11%; O 38.30%

**Biological Source:** Constit. of *Polygonum salicifolium*

**Physical Description:** Pale yellow powder

**Optical Rotation:** [α]<sub>D</sub><sup>23</sup> -20 (c, 0.12 in MeOH)

**UV:** [neutral] λ<sub>max</sub> 208 (); 233 (sh) (); 287 (); 333 () (MeOH)

>>Derivative: 4',6'-Di-Me ether

Synonym(s): 1-(2,3-Dihydroxy-4,6-dimethoxyphenyl)-3-phenyl-1-propanone. **2',3'-Dihydroxy-4',6'-dimethoxydihydrochalcone**

**CAS Registry Number:** 54299-22-8

**Molecular Formula:** C<sub>17</sub>H<sub>18</sub>O<sub>5</sub>

**Molecular Weight:** 302.326

**Accurate Mass:** 302.115425

**Percentage Composition:** C 67.54%; H 6.00%; O 26.46%

**Biological Source:** Constit. of *Anomianthus (Uvaria) dulcis*

**Physical Description:** Light yellow cryst. (hexane/CHCl<sub>3</sub>)

**Melting Point:** Mp 141-142° (134-136°)

**UV:** [neutral] λ<sub>max</sub> 242 (log ε 4.07); 291 (log ε 4.27); 350 (log ε 3.59) (MeOH)

>>Derivative: 3',4',6'-Tri-Me ether

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

**Molecular Formula:** C<sub>18</sub>H<sub>20</sub>O<sub>5</sub>

**Molecular Weight:** 316.353

**Accurate Mass:** 316.131075

**Percentage Composition:** C 68.34%; H 6.37%; O 25.29%

**Biological Source:** Constit. of *Fissistigma bracteolatum*

**Physical Description:** Needles (Me<sub>2</sub>CO)

**Melting Point:** Mp 101-103°

**UV:** [neutral] λ<sub>max</sub> 203 (sh) (); 235 (sh) (); 288 (log ε 4.17) (MeOH)

**References:**