



**CAS Registry Number:** 81674-91-1

**Molecular Formula:** C<sub>16</sub>H<sub>14</sub>O<sub>4</sub>

**Molecular Weight:** 270.284

**Accurate Mass:** 270.08921

**Percentage Composition:** C 71.10%; H 5.22%; O 23.68%

**Biological Source:** Isol. from *Bauhinia manca*

>>**Derivative:** 4'-Me ether

**Synonym(s):** 1-(2-Hydroxy-4-methoxyphenyl)-3-(4-hydroxyphenyl)-2-propen-1-one. **2',4-Dihydroxy-4'-methoxychalcone**

**CAS Registry Number:** 63529-06-6

**Molecular Formula:** C<sub>16</sub>H<sub>14</sub>O<sub>4</sub>

**Molecular Weight:** 270.284

**Accurate Mass:** 270.08921

**Percentage Composition:** C 71.10%; H 5.22%; O 23.68%

**Biological Source:** Isol. from resin of *Xanthorrhoea australis*

**Physical Description:** Yellow cryst. (EtOH aq.)

**Melting Point:** Mp 172°

**UV:** [neutral] λ<sub>max</sub> 239 (); 309 (); 365 (ε 15100) (MeOH) (Berdy) [base] λ<sub>max</sub> 279 (ε 7600); 330 (ε 1000); 395 (ε 15500) (MeOH-NAOH) (Berdy)

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

**Synonym(s):** 1-(2-Hydroxy-4-methoxyphenyl)-3-(4-methoxyphenyl)-2-propen-1-one. 2'-Hydroxy-4,4'-dimethoxychalcone

**CAS Registry Number:** 62881-44-1

**Molecular Formula:** C<sub>17</sub>H<sub>16</sub>O<sub>4</sub>

**Molecular Weight:** 284.311

**Accurate Mass:** 284.10486

**Percentage Composition:** C 71.82%; H 5.67%; O 22.51%

**Biological Source:** Constit. of *Bidens tripartitus* and *Lusia volucris*

**Physical Description:** Cryst. (petrol/EtOAc)

**Melting Point:** Mp 162°

>>**Derivative:** Tri-Me ether

**Synonym(s):** 1-(2,4-Dimethoxyphenyl)-3-(4-methoxyphenyl)-2-propen-1-one, 9CI. 2',4,4'-Trimethoxychalcone. **Metochalcone**, INN. Acrobil. Cholesteril. Lesidrin. Trimepaton. Versidril. CB 1314. Many other names

**CAS Registry Number:** 18493-30-6

**Molecular Formula:** C<sub>18</sub>H<sub>18</sub>O<sub>4</sub>

**Molecular Weight:** 298.338

**Accurate Mass:** 298.12051

**Percentage Composition:** C 72.47%; H 6.08%; O 21.45%

**Use/Importance:** Choleric and diuretic agent. Possesses hepatoprotectant properties

**Physical Description:** Cryst. (MeOH aq.)

**Melting Point:** Mp 97°

**Calculated Log P Data:** Log P 3.17 (calc)

>>**Derivative:** 4'-O-(3-Methyl-2-butenyl)

**Synonym(s):** 2',4-Dihydroxy-4'-prenyloxychalcone. **4-Hydroxycordoin**

**CAS Registry Number:** 55524-25-9

**Molecular Formula:** C<sub>20</sub>H<sub>20</sub>O<sub>4</sub>

**Molecular Weight:** 324.376

**Accurate Mass:** 324.13616

**Percentage Composition:** C 74.06%; H 6.21%; O 19.73%

**Biological Source:** Isol. from *Lonchocarpus neuroscapha*