CAS Registry Number: 81674-91-1

Molecular Formula: $C_{16}H_{14}O_4$
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: $C_{16}H_{14}O_4$
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_{max} 239 (); 309 (); 365 (ε 15100) (MeOH) (Berdy) [base] λ_{max} 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: $C_{17}H_{16}O_4$
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, 9Cl. 2',4,4'-Trimethoxychalcone. **Metochalcone,** INN. Acrobil. Cholesteril. Lesidrin. Trimepaton. Versidril. CB 1314. Many other names

CAS Registry Number: 18493-30-6

Molecular Formula: $C_{18}H_{18}O_4$
Molecular Weight: 298.338
Accurate Mass: 298.12051
Percentage Composition: C 72.47%; H 6.08%; O 21.45%
Use/Importance: Choleretic 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: $C_{20}H_{20}O_4$
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*