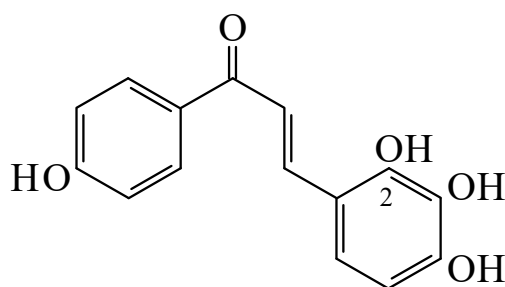




>>Entry Name: **2,3,4,4'-Tetrahydroxychalcone**

Synonym(s): 1-(4-Hydroxyphenyl)-3-(2,3,4-trihydroxyphenyl)-2-propen-1-one



Molecular Formula: C₁₅H₁₂O₅

Molecular Weight: 272.257

Accurate Mass: 272.068475

Percentage Composition: C 66.17%; H 4.44%; O 29.38%

>>Derivative: 2-Me ether

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

CAS Registry Number: 58749-23-8

Molecular Formula: C₁₆H₁₄O₅

Molecular Weight: 286.284

Accurate Mass: 286.084125

Percentage Composition: C 67.13%; H 4.93%; O 27.94%

Biological Source: Constit. of the roots of *Glycyrrhiza glabra*

Physical Description: Yellow needles

Melting Point: Mp 195-197°

UV: [neutral] λ_{max} 308 (); 364 () (MeOH) (Berdy) [neutral] λ_{max} 262 (); 360 () (EtOH) (Berdy)

Other Data: Unusual 'retroflavonoid' substitution pattern

References:

Saitoh, T. *et al.*, *Tet. Lett.*, 1975, 4461; 4463, (*isol, struct, biosynth*)

Islam, A. *et al.*, *Indian J. Chem., Sect. B*, 1982, **21**, 965, (*synth*)