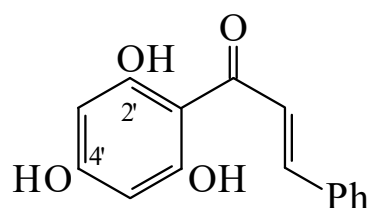




>>Entry Name: 2',4',6'-Trihydroxychalcone

Synonym(s): 3-Phenyl-1-(2,4,6-trihydroxyphenyl)-2-propen-1-one



CAS Registry Number: 4197-97-1

Related CAS Registry Numbers(s): 18956-16-6 82451-30-7

Molecular Formula: C₁₅H₁₂O₄

Molecular Weight: 256.257

Accurate Mass: 256.07356

Percentage Composition: C 70.31%; H 4.72%; O 24.97%

Biological Source: Isol. from *Chromolaena chasleae*, *Hymenoclea salsola*, *Helichrysum* spp. *Adiantum sulphureum* (leaf exudate) and others

Physical Description: Yellow needles (C₆H₆)

Melting Point: Mp 176-178°

>>Derivative: 2'-Me ether

Synonym(s): 2',4'-Dihydroxy-6'-methoxychalcone. **Cardamonin**. Alpinetin chalcone

CAS Registry Number: 19309-14-9

Molecular Formula: C₁₆H₁₄O₄

Molecular Weight: 270.284

Accurate Mass: 270.08921

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

Biological Source: Isol. from *Boesenbergia pandurata*, *Pityrogramma chrysophylla*, *Alpinia* spp. *Comptonia peregrina*, *Myrica pensylvanica*, *Piper*, *Populus* and dragon's blood resin

Physical Description: Yellow needles (CHCl₃/hexane)

Melting Point: Mp 199-200°

UV: [base] λ_{max} (solvent not reported) (Derep) [neutral] λ_{max} 349 (ε 21000) (EtOH) (Derep)

>>Derivative: 4'-Me ether

Synonym(s): 2',6'-Dihydroxy-4'-methoxychalcone. **Pinostrobin chalcone**

CAS Registry Number: 18956-15-5

Molecular Formula: C₁₆H₁₄O₄

Molecular Weight: 270.284

Accurate Mass: 270.08921

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

Biological Source: Isol. from *Boesenbergia pandurata* and of leaves of *Lindera umbellata*, from *Cajanus cajan*, *Onychium siliculosum*, (leaf farina) and various other ferns

Physical Description: Orange needles (CHCl₃/hexane)

Melting Point: Mp 163.5-164.5°

>>Derivative: 2',4'-Di-Me ether

Synonym(s): 2'-Hydroxy-4',6'-dimethoxychalcone. **Flavokawain B**

CAS Registry Number: 1775-97-9

Molecular Formula: C₁₇H₁₆O₄

Molecular Weight: 284.311

Accurate Mass: 284.10486

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

Biological Source: Constit. of *Piper methysticum*, *Alpinia speciosa*, *Myrica pensylvanica*, *Pinus* spp. *Aniba riparia*, *Didymocarpus corchorifolia* and *Pityrogramma triangularis*

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 91°