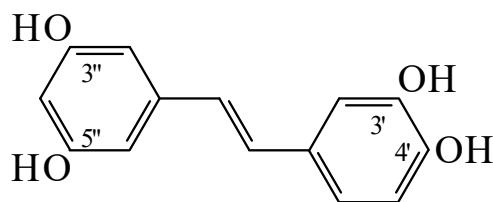




>>Entry Name: 1-(3,4-Dihydroxyphenyl)-2-(3,5-dihydroxyphenyl)ethylene

Synonym(s): 4-[2-(3,5-Dihydroxyphenyl)ethenyl]-1,2-benzenediol, 9Cl. 3,3',4,5'-Stilbenetetrol, 8Cl. 3,3',4,5'-Tetrahydroxystilbene. **Piceatannol**. Astringenin. NSC 365798



CAS Registry Number: 4339-71-3

Molecular Formula: C₁₄H₁₂O₄

Molecular Weight: 244.246

Accurate Mass: 244.07356

Percentage Composition: C 68.85%; H 4.95%; O 26.20%

>>Variant: (*E*)-form

CAS Registry Number: 10083-24-6

Type of Compound Code(s): VG4000

Molecular Formula: C₁₄H₁₂O₄

Molecular Weight: 244.246

Accurate Mass: 244.07356

Percentage Composition: C 68.85%; H 4.95%; O 26.20%

Biological Source: Found in Norway spruce, *Vouacapoua macropetala*, *Pericopsis angolensis* and other spp.

Biological Use/Importance: Fungal inhibitor. Plant growth inhibitor and ichthyotoxin

Physical Description: Needles (EtOAc/hexane)

Melting Point: Mp 231-232° (216°)

Solubility: BERDY SOL: Sol. MeOH, CHCl₃; poorly sol. H₂O

UV: [neutral] λ_{max} 221 (); 240 (sh) (); 306 (); 326 (ε 27600) (EtOH) [neutral] λ_{max} 221 (); 326 () (EtOH) (Berdy)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) 217 mg/kg

Sigma: P0453

>>Derivative: 4'-*O*-β-D-Glucopyranoside

CAS Registry Number: 116181-54-5

Type of Compound Code(s): WA2800 VG4000

Molecular Formula: C₂₀H₂₂O₉

Molecular Weight: 406.388

Accurate Mass: 406.126385

Percentage Composition: C 59.11%; H 5.46%; O 35.43%

Biological Source: Isol. from Chinese rhubarb (*Rheum* sp.)

Physical Description: Amorph. powder + 1½H₂O

Optical Rotation: [α]_D²² -35.8 (c, 0.84 in Me₂CO)

>>Derivative: 4'-*O*-[3,4,5-Trihydroxybenzoyl-(→6)-β-D-glucopyranoside]

CAS Registry Number: 116107-19-8

Type of Compound Code(s): WA2800 VG4000

Molecular Formula: C₂₇H₂₆O₁₃

Molecular Weight: 558.495

Accurate Mass: 558.137345

Percentage Composition: C 58.07%; H 4.69%; O 37.24%

Biological Source: Isol. from Chinese rhubarb (*Rheum* sp.)

Physical Description: Off-white powder + 1½H₂O

Optical Rotation: [α]_D²² -73.2 (c, 0.7 in Me₂CO)

>>Derivative: 3''-*O*-β-D-Glucopyranoside

Synonym(s): Astringin

CAS Registry Number: 29884-49-9

Type of Compound Code(s): VG4000

Molecular Formula: C₂₀H₂₂O₉

Molecular Weight: 406.388

Accurate Mass: 406.126385

Percentage Composition: C 59.11%; H 5.46%; O 35.43%

Biological Source: Constit. of *Picea* spp. Also from *Eucalyptus dundasii*