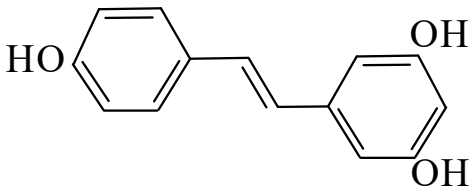
>>**Entry Name: 1-(3,5-Dihydroxyphenyl)-2-(4-hydroxyphenyl)ethylene**
ENTRY UNDER REVIEW
Synonym(s): 5-[2-(4-Hydroxyphenyl)ethenyl]-1,3-benzenediol, 9CI. 3,4',5-Stilbenetriol, 8CI. 3,4',5-Trihydroxystilbene. **Resveratrol**



(*E*)-*form*

Related CAS Registry Numbers(s): 33626-08-3 54443-64-0
Extra CAS Registry Numbers(s): 36469-58-6

Molecular Formula: $C_{14}H_{12}O_3$
Molecular Weight: 228.247
Accurate Mass: 228.078645
Percentage Composition: C 73.67%; H 5.30%; O 21.03%
Solubility: BERDY SOL: Sol. EtOH, Me_2CO; poorly sol. H_2O
UV: [neutral] λ_{max} 210 (); 370 () (EtOH) (Berdy) [base] λ_{max} 211 (); 347 () (EtOH-NaOH) (Berdy)

>>**Variant:** (*E*)-form

CAS Registry Number: 501-36-0
Type of Compound Code(s): VG4000
Molecular Formula: $C_{14}H_{12}O_3$
Molecular Weight: 228.247
Accurate Mass: 228.078645
Percentage Composition: C 73.67%; H 5.30%; O 21.03%
Biological Source: Phytoalexin from *Veratrum grandiflorum* (roots), *Pinus sibirica* (bark), *Vitis vinifera* and *Arachis hypogaea*. Also from *Eucalyptus, Polygonum* and *Nothofagus* spp. and *Cudrania javanensis*
Biological Use/Importance: Fungicide, bactericide. Resveratrol in red wines has been postulated to be associated with beneficial health effects. Shows Tyrosinase inhibitory activity
Physical Description: Cryst. (MeOH aq.)
Melting Point: Mp 265-267°
UV: [neutral] λ_{max} 218 (ε 21400); 227 (sh) (ε 14800); 307 (ε 27500); 320 (ε 26900) (EtOH)
Sigma: R5010

>>**Derivative:** 3-*O*-β-D-Xylopyranoside
Synonym(s): Resveratrol 3-xyloside

Type of Compound Code(s): VG4000
Molecular Formula: $C_{19}H_{20}O_7$
Molecular Weight: 360.363
Accurate Mass: 360.120905
Percentage Composition: C 63.33%; H 5.59%; O 31.08%
Biological Source: Constit. of the bark of *Holodiscus discolor*
Physical Description: Powder
Optical Rotation: $[\alpha]_D^{29}$ –7.4 (c, 2.1 in MeOH)

>>**Derivative:** 3-*O*-β-D-Glucopyranoside
Synonym(s): Piceid. Polydatin

CAS Registry Number: 27208-80-6
Type of Compound Code(s): VG4000
Molecular Formula: $C_{20}H_{22}O_8$
Molecular Weight: 390.389
Accurate Mass: 390.13147
Percentage Composition: C 61.53%; H 5.68%; O 32.79%
Biological Source: Isol. from *Picea* spp., *Pinus sibirica, Polygonum cuspidatum* and *Eucalyptus* spp.
Physical Description: Pale yellow needles
Melting Point: Mp 130-140° (resolidifies at 170°, remelts at 228-230°)
Optical Rotation: $[\alpha]_D^{19}$ –65.26 (c, 0.19 in MeOH)
UV: [acid] λ_{max} 211 (ε 17000); 304 (ε 17800); 315 (ε 14800) (isomeric form recorded) (Derep) [neutral] λ_{max} 217 (ε 2000); 306 (ε 16200); 314 (ε 13200); 320 (ε 13800) (EtOH) (Derep)

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