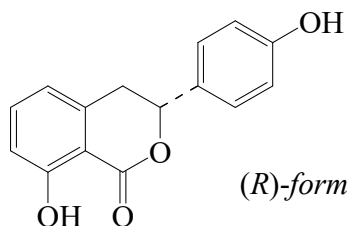




>>Entry Name: **Hydrangenol**

Synonym(s): 3,4-Dihydro-8-hydroxy-3-(4-hydroxyphenyl)-1*H*-2-benzopyran-1-one, 9Cl. 3,4-Dihydro-8-hydroxy-3-(4-hydroxyphenyl)isocoumarin



CAS Registry Number: 480-47-7

Related CAS Registry Numbers(s): 113349-39-6 148245-80-1 157811-08-0

Molecular Formula: C₁₅H₁₂O₄

Molecular Weight: 256.257

Accurate Mass: 256.07356

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

Hazard & Toxicity: Allergen

>>Variant: (*R*)-form

Molecular Formula: C₁₅H₁₂O₄

Molecular Weight: 256.257

Accurate Mass: 256.07356

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

Biological Source: Constit. of *Hydrangea macrophylla* and *Plagiochila adianthoides*

Physical Description: Plates (EtOH)

Melting Point: Mp 181° (105°)

Optical Rotation: [α]_D +90.6 (c, 0.2 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 246 (); 274 (); 281 (); 316 () (CHCl₃)

>>Derivative: 8-*O*- β -D-Glucopyranoside

CAS Registry Number: 113349-39-6

Molecular Formula: C₂₁H₂₂O₉

Molecular Weight: 418.399

Accurate Mass: 418.126385

Percentage Composition: C 60.28%; H 5.30%; O 34.42%

Biological Source: Constit. of *Hydrangea macrophylla*

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

CAS Registry Number: 182212-14-2

Molecular Formula: C₂₁H₂₂O₉

Molecular Weight: 418.399

Accurate Mass: 418.126385

Percentage Composition: C 60.28%; H 5.30%; O 34.42%

Biological Source: Constit. of *Hydrangea macrophylla*

Physical Description: Powder

Optical Rotation: [α]_D²⁵ +6.9 (c, 0.1 in MeOH)

>>Derivative: 4'-*O*-[β -D-Apiofuranosyl-(1 $\rightarrow$ 6)- β -D-glucopyranoside]

Molecular Formula: C₂₆H₃₀O₁₃

Molecular Weight: 550.515

Accurate Mass: 550.168645

Percentage Composition: C 56.73%; H 5.49%; O 37.78%

Biological Source: Constit. of *Hydrangea macrophylla* var. *thunbergii*

Physical Description: Powder

Optical Rotation: [α]_D²⁵ -23.9 (c, 0.1 in MeOH)

UV: [neutral] $\lambda_{\max}$ 245 (log ϵ 3.2); 314 (log ϵ 2.9) (MeOH)