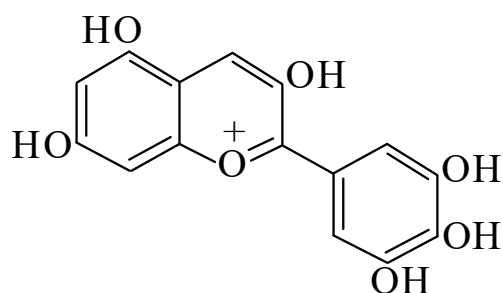




>>Entry Name: 3,3',4',5,5',7-Hexahydroxyflavylium(1+)

ENTRY UNDER REVIEW

Synonym(s): 3,5,7-Trihydroxy-2-(3,4,5-trihydroxyphenyl)-1-benzopyrilium(1+), 9Cl. **Delphinidin**. Delphinidol



Related CAS Registry Numbers(s): 58091-00-2 126417-61-6 127254-37-9 127304-90-9 127337-94-4 128508-49-6 144607-76-1 144921-63-1

Extra CAS Registry Numbers(s): 528-53-0

Molecular Formula: $C_{15}H_{11}O_7^{(+)}$

Molecular Weight: 303.248

Accurate Mass: 303.05048

Percentage Composition: C 59.41%; H 3.66%; O 36.93%

Biological Source: Pigment isol. from various plants. Widespread for example in the Plumbaginaceae, Hamamelidaceae and Anacardiaceae

Physical Description: Dark red-brown cryst. (as chloride)

Melting Point: Mp 250° (chloride)

Other Data: Forms mono-, di- and trihydrates

>>Derivative: 3-O-Arabinoside

Synonym(s): Delphinidin 3-arabinoside

CAS Registry Number: 28500-01-8

Molecular Formula: $C_{20}H_{19}O_{11}^{(+)}$

Molecular Weight: 435.363

Accurate Mass: 435.09274

Percentage Composition: C 55.18%; H 4.40%; O 40.42%

Biological Source: Isol. from *Vaccinium* spp. and other plant spp.

>>Derivative: 3-O-β-D-Glucopyranoside

Synonym(s): Myrtillin. Delphinidin 3-glucoside. Myrtillin A

CAS Registry Number: 6906-38-3

Molecular Formula: $C_{21}H_{21}O_{12}^{(+)}$

Molecular Weight: 465.39

Accurate Mass: 465.103305

Percentage Composition: C 54.20%; H 4.55%; O 41.25%

Biological Source: Isol. from grapes and many other plant spp.

Biological Use/Importance: Antihyperglycaemic agent

Physical Description: Deep purple cryst. (HCl aq.)

>>Derivative: 3-O-(Acetyl-β-D-glucopyranoside)

Synonym(s): Delphinidin 3-(acetylglucoside)

CAS Registry Number: 66594-00-1

Molecular Formula: $C_{23}H_{23}O_{14}^{(+)}$

Molecular Weight: 523.426

Accurate Mass: 523.108785

Percentage Composition: C 52.78%; H 4.43%; O 42.79%

Biological Source: Isol. from grapes

>>Derivative: 7-O-β-D-Glucopyranoside

Synonym(s): Delphinidin 7-glucoside

CAS Registry Number: 27413-99-6

Molecular Formula: $C_{21}H_{21}O_{12}^{(+)}$