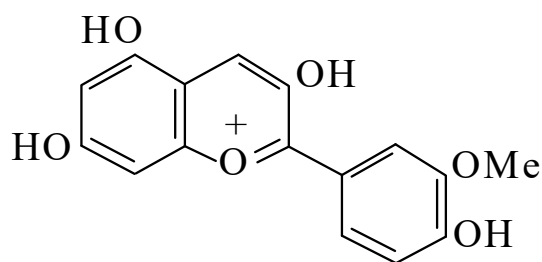




>>Entry Name: 3,4',5,7-Tetrahydroxy-3'-methoxyflavylium(1+)

ENTRY UNDER REVIEW

Synonym(s): 3,5,7-Trihydroxy-2-(4-hydroxy-3-methoxyphenyl)-1-benzopyrylium(1+), 9Cl. **Peonidin**. Paeonidin



CAS Registry Number: 134-01-0

Related CAS Registry Numbers(s): 140447-88-7

Molecular Formula: $C_{16}H_{13}O_6^{(+)}$

Molecular Weight: 301.275

Accurate Mass: 301.071215

Percentage Composition: C 63.79%; H 4.35%; O 31.86%

Biological Source: Isol. from *Periploca graeca*, *Rhododendron* spp., *Corydalis* spp., *Vaccinium* spp., *Vitis* hybrids and Concord grapes

Physical Description: Reddish-brown needles + 2H₂O (as chloride)

Other Data: CAS no. refers to chloride. Forms a sesquihydrate showing dimorphism

>>Derivative: 3-*O*-Arabinoside

Synonym(s): Peonidin 3-arabinoside

CAS Registry Number: 27214-74-0

Molecular Formula: $C_{21}H_{21}O_{10}^{(+)}$

Molecular Weight: 433.391

Accurate Mass: 433.113475

Percentage Composition: C 58.20%; H 4.88%; O 36.92%

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

>>Derivative: 3-*O*-Arabinoside, 5-*O*-β-D-glucopyranoside

Molecular Formula: $C_{27}H_{31}O_{15}^{(+)}$

Molecular Weight: 595.533

Accurate Mass: 595.1663

Percentage Composition: C 54.45%; H 5.25%; O 40.30%

Biological Source: Isol. from *Polygonum longisetum*

>>Derivative: 3-*O*-α-L-Rhamnopyranoside

Synonym(s): Peonidin 3-rhamnoside

CAS Registry Number: 72551-79-2

Molecular Formula: $C_{22}H_{23}O_{10}^{(+)}$

Molecular Weight: 447.418

Accurate Mass: 447.129125

Percentage Composition: C 59.06%; H 5.18%; O 35.76%

Biological Source: Isol. from *Cassia javanica* and *Lathyrus odoratus*

>>Derivative: 3-*O*-α-L-Rhamnopyranoside, 5-*O*-β-D-glucopyranoside

Synonym(s): Peonidin 5-glucoside 3-rhamnoside

CAS Registry Number: 53859-11-3

Molecular Formula: $C_{28}H_{33}O_{15}^{(+)}$

Molecular Weight: 609.56

Accurate Mass: 609.18195

Percentage Composition: C 55.17%; H 5.46%; O 39.37%

Biological Source: Isol. from *Pisum* sp. and *Lathyrus odoratus*

>>Derivative: 3-*O*-D-Galactopyranoside

CAS Registry Number: 28148-89-2

Molecular Formula: $C_{22}H_{23}O_{11}^{(+)}$