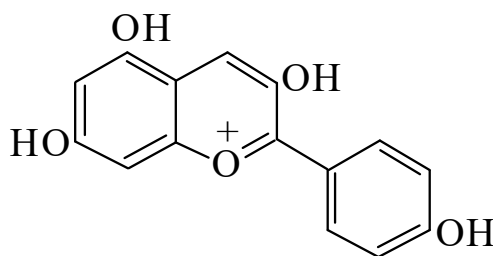




>>Entry Name: 3,4',5,7-Tetrahydroxyflavylium(1+), 8Cl

ENTRY UNDER REVIEW

Synonym(s): 3,5,7-Trihydroxy-2-(4-hydroxyphenyl)-1-benzopyrylium(1+), 9Cl. **Pelargonidin**



CAS Registry Number: 7690-51-9

Related CAS Registry Numbers(s): 101752-18-5 101752-19-6

Extra CAS Registry Numbers(s): 134-04-3

Molecular Formula: C₁₅H₁₁O₅⁽⁺⁾

Molecular Weight: 271.249

Accurate Mass: 271.06065

Percentage Composition: C 66.42%; H 4.09%; O 29.49%

Biological Source: Anthocyanin pigment present in many plants, flowers and fruits, e.g. radishes, orchids, brassicas, *Petunia* spp. Glycosides also widely distributed

Physical Description: Red-brown prisms (HCl aq.)(as chloride)

Melting Point: Mp 350° (chloride)

Solubility: Mod. sol. H₂O

UV: [acid] λ_{max} 530 (ε 32000) (MeOH-HCl) (Berdy)

Other Data: Ms unsuitable as analytical technique

>>Derivative: 3-*O*-β-D-Xylopyranoside

Synonym(s): Pelargonidin 3-xyloside. **Taccalin**

CAS Registry Number: 77974-80-2

Molecular Formula: C₂₀H₁₉O₉⁽⁺⁾

Molecular Weight: 403.365

Accurate Mass: 403.10291

Percentage Composition: C 59.55%; H 4.75%; O 35.70%

Biological Source: Isol. from *Tacca aspera*

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

Synonym(s): Pelargonidin 3-rhamnoside

CAS Registry Number: 56190-03-5

Molecular Formula: C₂₁H₂₁O₉⁽⁺⁾

Molecular Weight: 417.391

Accurate Mass: 417.11856

Percentage Composition: C 60.43%; H 5.07%; O 34.50%

Biological Source: Isol. from *Ficus* sp., *Salvia* sp., *Lathyrus odoratus* and others

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

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

CAS Registry Number: 53925-32-9

Molecular Formula: C₂₇H₃₁O₁₄⁽⁺⁾

Molecular Weight: 579.533

Accurate Mass: 579.171385

Percentage Composition: C 55.96%; H 5.39%; O 38.65%

Biological Source: Isol. from *Pisum* spp.

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

Synonym(s): **Fragarin**

CAS Registry Number: 125410-44-8

Molecular Formula: C₂₁H₂₁O₁₀⁽⁺⁾