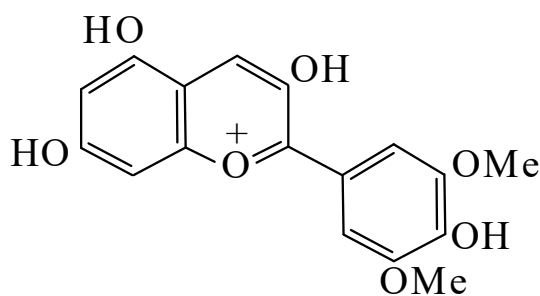




>>Entry Name: 3,4',5,7-Tetrahydroxy-3',5'-dimethoxyflavylium(1+)

ENTRY UNDER REVIEW

Synonym(s): 3,5,7-Trihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-1-benzopyrylium(1+), 9Cl. **Malvidin.** 3',5'-Dimethyldelphinidin. Denidin. Syringidin. Malvidol. Enidin. Oenidin. Primulidin. Malvinidin



CAS Registry Number: 10463-84-0

Related CAS Registry Numbers(s): 90276-14-5 148154-67-0

Extra CAS Registry Numbers(s): 643-84-5

Molecular Formula: C₁₇H₁₅O₇⁽⁺⁾

Molecular Weight: 331.301

Accurate Mass: 331.08178

Percentage Composition: C 61.63%; H 4.56%; O 33.80%

Biological Source: Isol. from hydrolysed petals of numerous *Lathyrus* spp. Apparently present as free aglycone in *Lathyrus sativus*

Physical Description: Dark brown prisms or needles + 1H₂O (EtOH/HCl aq.)(as chloride)

Other Data: Chloride is red by transmitted light, green by reflected light

Hazard & Toxicity: LD₅₀ (mus, ivn) 18 mg/kg. Exp. reprod. effects (male)

>>Derivative: 3-O-Arabinoside

Synonym(s): Malvidin 3-arabinoside

CAS Registry Number: 28500-04-1

Molecular Formula: C₂₂H₂₃O₁₁⁽⁺⁾

Molecular Weight: 463.417

Accurate Mass: 463.12404

Percentage Composition: C 57.02%; H 5.00%; O 37.98%

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

>>Derivative: 3-O-[4-Hydroxycinnamoyl-(→?)-D-xyloside], 5-O-β-D-glucopyranoside

CAS Registry Number: 83826-06-6

Molecular Formula: C₃₇H₃₉O₁₈⁽⁺⁾

Molecular Weight: 771.704

Accurate Mass: 771.213645

Percentage Composition: C 57.59%; H 5.09%; O 37.32%

Biological Source: Isol. from *Tibouchina granulosa*

>>Derivative: 3-O-(Bis-O-4-hydroxycinnamoyl-D-xyloside), 5-O-β-D-glucopyranoside

CAS Registry Number: 83839-17-2

Molecular Formula: C₄₆H₄₅O₂₀⁽⁺⁾

Molecular Weight: 917.849

Accurate Mass: 917.250425

Percentage Composition: C 60.20%; H 4.94%; O 34.86%

Biological Source: Isol. from *Tibouchina granulosa*

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

Synonym(s): Malvidin 3-rhamnoside

CAS Registry Number: 53925-28-3

Molecular Formula: C₂₃H₂₅O₁₁⁽⁺⁾

Molecular Weight: 477.444

Accurate Mass: 477.13969

Percentage Composition: C 57.86%; H 5.28%; O 36.86%

Biological Source: Isol. from *Lathyrus* spp. and *Pisum* spp.