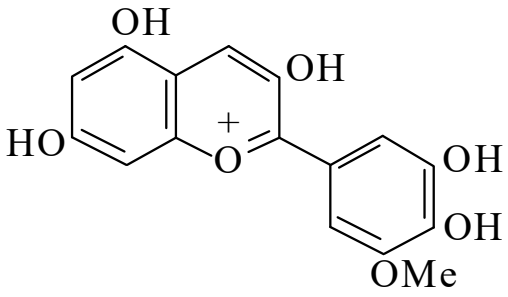
>>**Entry Name: 3,3',4',5,7-Pentahydroxy-5'-methoxyflavylium(1+)**
ENTRY UNDER REVIEW
Synonym(s): 2-(3,4-Dihydroxy-5-methoxyphenyl)-3,5,7-trihydroxy-1-benzopyrylium(1+), 9Cl. **Petunidin.** Myrtillidin. Petunidol



CAS Registry Number: 13270-60-5
Extra CAS Registry Numbers(s): 1429-30-7

Molecular Formula: $C_{16}H_{13}O_7^{(+)}$
Molecular Weight: 317.274
Accurate Mass: 317.06613
Percentage Composition: C 60.57%; H 4.13%; O 35.30%
Biological Source: Isol. from bilberries, *Gladiolus atroviolaceus, Amomum subulatum, Passiflora quadrangularis* and fruits of *Cactus opuntia*. Present in many other plants
Physical Description: Grey-brown leaflets or prisms (HCl aq.)(as chloride)
Other Data: Forms several hydrates

>>**Derivative:** 3-*O*-Arabinoside
Synonym(s): Petunidin 3-arabinoside

CAS Registry Number: 28500-03-0

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 other plant spp.

>>**Derivative:** 5-*O*-Xyloside
Synonym(s): Petunidin 5-xyloside

Molecular Formula: $C_{21}H_{21}O_{11}^{(+)}$
Molecular Weight: 449.39
Accurate Mass: 449.10839
Percentage Composition: C 56.13%; H 4.71%; O 39.16%
Biological Source: Isol. from flowers of *Lavandula pedunculata*
Other Data: Probable struct.

>>**Derivative:** 3-*O*-α-L-Rhamnopyranoside
Synonym(s): Petunidin 3-rhamnoside

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 *Lathyrus odoratus*

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

CAS Registry Number: 53925-30-7

Molecular Formula: $C_{28}H_{33}O_{16}^{(+)}$
Molecular Weight: 625.559
Accurate Mass: 625.176865
Percentage Composition: C 53.76%; H 5.32%; O 40.92%
Biological Source: Isol. from the Leguminosae