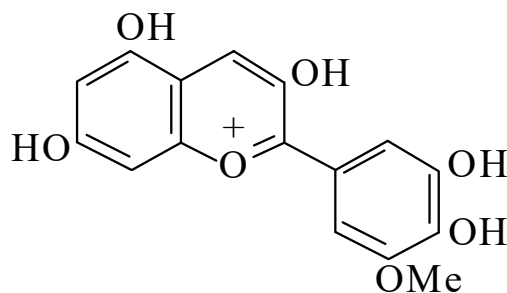




>>Entry Name: 3,3',4',5,7-Pentahydroxy-5'-methoxyflavylium(1+)

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 atrovioaceus*, *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