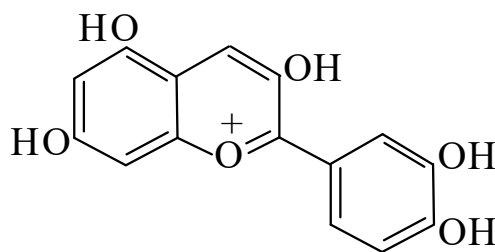




>>Entry Name: 3,3',4',5,7-Pentahydroxyflavylium(1+)

ENTRY UNDER REVIEW

Synonym(s): 2-(3,4-Dihydroxyphenyl)-3,5,7-trihydroxy-1-benzopyrylium(1+), 9Cl. Cyanidin. Cyanidol‡



CAS Registry Number: 13306-05-3

Related CAS Registry Numbers(s): 18376-31-3 39030-77-8 124168-01-0 141891-42-1 142354-29-8 142354-30-1 142631-48-9 142631-49-0

Extra CAS Registry Numbers(s): 528-58-5

Molecular Formula: C₁₅H₁₁O₆⁽⁺⁾

Molecular Weight: 287.248

Accurate Mass: 287.055565

Percentage Composition: C 62.72%; H 3.86%; O 33.42%

Biological Source: Isol. from *Rhododendron* spp., *Vaccinium* spp., *Polygonum* spp. and black tea. Widely distributed anthocyanin

Biological Use/Importance: Possesses antiulcer props.

Physical Description: Chocolate-brown cryst. (EtOH/HCl) or red-brown needles (as chloride)

Other Data: Dec. >200° (chloride)

>>Derivative: 3-O-β-L-Arabinoside

Synonym(s): Cyanidin 3-arabinoside

CAS Registry Number: 27214-72-8

Molecular Formula: C₂₀H₁₉O₁₀⁽⁺⁾

Molecular Weight: 419.364

Accurate Mass: 419.097825

Percentage Composition: C 57.28%; H 4.57%; O 38.15%

Biological Source: Isol. from numerous plant spp.

Physical Description: Almost black prisms (as chloride)

>>Derivative: 3-O-[3,4-Dihydroxycinnamoyl-(→?)-arabinoside]

CAS Registry Number: 90880-62-9

Molecular Formula: C₂₉H₂₅O₁₂⁽⁺⁾

Molecular Weight: 565.509

Accurate Mass: 565.134605

Percentage Composition: C 61.59%; H 4.46%; O 33.95%

Biological Source: Isol. from *Cenchrus ciliaris*

>>Derivative: 7-O-Arabinoside

Synonym(s): Cyanidin 7-arabinoside

CAS Registry Number: 28985-03-7

Molecular Formula: C₂₀H₁₉O₁₀⁽⁺⁾

Molecular Weight: 419.364

Accurate Mass: 419.097825

Percentage Composition: C 57.28%; H 4.57%; O 38.15%

Biological Source: Isol. from the apple tree *Malus* sp.

>>Derivative: 3-O-Xyloside

Synonym(s): Cyanidin 3-xyloside

CAS Registry Number: 29761-24-8

Molecular Formula: C₂₀H₁₉O₁₀⁽⁺⁾

Molecular Weight: 419.364

Accurate Mass: 419.097825

Percentage Composition: C 57.28%; H 4.57%; O 38.15%

Biological Source: Isol. from *Saxifraga aizoon*, *Epacris impressa* and apples