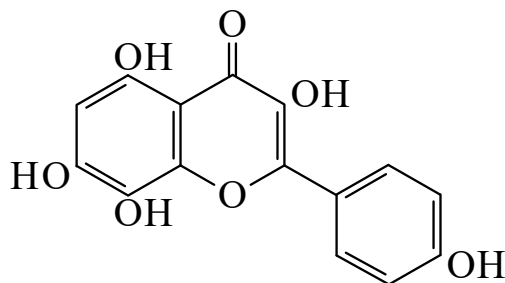




>>Entry Name: 3,4',5,7,8-Pentahydroxyflavone

Synonym(s): 3,5,7,8-Tetrahydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one, 9Cl. 4',5,7,8-Tetrahydroxyflavonol. **Herbacetin**. Isoarticulatin. 8-Hydroxykaempferol



CAS Registry Number: 527-95-7

Molecular Formula: C₁₅H₁₀O₇

Molecular Weight: 302.24

Accurate Mass: 302.042655

Percentage Composition: C 59.61%; H 3.33%; O 37.06%

Biological Source: Isol. from *Gossypium*, *Equisetum*, *Eupatorium* and other plant genera

Physical Description: Yellow cryst. + 1H₂O (EtOH aq.)

Melting Point: Mp 280-283°

>>Derivative: 8-O-β-D-Arabinofuranoside

CAS Registry Number: 135921-27-6

Molecular Formula: C₂₀H₁₈O₁₁

Molecular Weight: 434.356

Accurate Mass: 434.084915

Percentage Composition: C 55.30%; H 4.18%; O 40.52%

Biological Source: Constit. of *Rhodiola fastigiata*

>>Derivative: 7-O-β-L-Arabinopyranoside

Synonym(s): Gelolin

CAS Registry Number: 74355-99-0

Molecular Formula: C₂₀H₁₈O₁₁

Molecular Weight: 434.356

Accurate Mass: 434.084915

Percentage Composition: C 55.30%; H 4.18%; O 40.52%

Biological Source: Isol. from *Rhodiola gelida*

>>Derivative: 8-O-α-L-Arabinopyranoside

Synonym(s): Rhodalgin

CAS Registry Number: 58902-10-6

Molecular Formula: C₂₀H₁₈O₁₁

Molecular Weight: 434.356

Accurate Mass: 434.084915

Percentage Composition: C 55.30%; H 4.18%; O 40.52%

Biological Source: Isol. from *Rhodiola algida*

Melting Point: Mp 239-240°

Optical Rotation: [α]_D²⁰+50 (c, 0.64 in MeOH)

>>Derivative: 8-O-(3-O-Acetyl-α-L-arabinopyranoside)

Synonym(s): Acetylrhodalgin

CAS Registry Number: 58902-11-7

Molecular Formula: C₂₂H₂₀O₁₂

Molecular Weight: 476.393

Accurate Mass: 476.09548

Percentage Composition: C 55.47%; H 4.23%; O 40.30%

Biological Source: Isol. from *Rhodiola algida*

Melting Point: Mp 223-224°

Optical Rotation: [α]_D²⁰+69.2 (c, 0.8 in MeOH)