



Biological Source: Constit. of the flowers of *Tibouchina urvilleana*

Physical Description: Red-purple powder (as tetrafluoroacetate)

Melting Point: Mp 300° (TFA salt)

>>**Derivative:** 5-*O*-β-D-Glucopyranoside

Synonym(s): Malvenin

Molecular Formula: C₂₃H₂₅O₁₂⁽⁺⁾

Molecular Weight: 493.443

Accurate Mass: 493.134605

Percentage Composition: C 55.98%; H 5.11%; O 38.91%

Physical Description: Brownish-violet cryst. + 2H₂O (EtOH/HCl aq.) (as chloride)

>>**Derivative:** 3,5-Di-*O*-β-D-glucopyranoside

Synonym(s): Malvin. Malvoside

CAS Registry Number: 16727-30-3

Molecular Formula: C₂₉H₃₅O₁₇⁽⁺⁾

Molecular Weight: 655.585

Accurate Mass: 655.18743

Percentage Composition: C 53.13%; H 5.38%; O 41.49%

Biological Source: Isol. from numerous plant spp.

Physical Description: Red-brown needles or prisms with green reflex (HCl aq.) (as chloride)

Melting Point: Mp 165 dec.° (chloride)

Sigma: M9395

>>**Derivative:** 3,7-Di-*O*-β-D-glucopyranoside

Synonym(s): Malvidin 3,7-diglucoside

CAS Registry Number: 96407-95-3

Molecular Formula: C₂₉H₃₅O₁₇⁽⁺⁾

Molecular Weight: 655.585

Accurate Mass: 655.18743

Percentage Composition: C 53.13%; H 5.38%; O 41.49%

Biological Source: Isol. from *Aristotelia chilensis*

>>**Derivative:** 3,7-Bis-*O*-(6-*O*-malonyl-β-D-glucopyranoside)

Molecular Formula: C₃₅H₃₉O₂₃⁽⁺⁾

Molecular Weight: 827.679

Accurate Mass: 827.18822

Percentage Composition: C 50.79%; H 4.75%; O 44.46%

Biological Source: Constit. of the flowders of *Crocus chrysanthus* 'Skyline'

>>**Derivative:** 3-*O*-[Arabinosyl-(1→?)-β-D-glucopyranoside], 5-*O*-β-D-glucopyranoside

CAS Registry Number: 39047-85-3

Molecular Formula: C₃₄H₄₃O₂₁⁽⁺⁾

Molecular Weight: 787.701

Accurate Mass: 787.22969

Percentage Composition: C 51.84%; H 5.50%; O 42.65%

Biological Source: Isol. from the Gesneriaceae

>>**Derivative:** 3-*O*-[β-D-Xylopyranosyl-(1→2)-β-D-glucopyranoside]

Synonym(s): Malvidin 3-sambubioside

Molecular Formula: C₂₈H₃₃O₁₆⁽⁺⁾

Molecular Weight: 625.559

Accurate Mass: 625.176865

Percentage Composition: C 53.76%; H 5.32%; O 40.92%

Biological Source: Constit. of the fruit of *Vaccinium padifolium*