



Molecular Formula: C₂₂H₂₂O₁₁

Molecular Weight: 462.409

Accurate Mass: 462.116215

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Biological Source: Isol. from *Astragalus centralpinus*, *Hippophae rhamnoides*, *Raphanus raphanistrum* and *Sedum caucasicum*

Melting Point: Mp 248-250°

Optical Rotation: $[\alpha]_D^{20} -122$ (EtOH)

>>Derivative: 3,7-Di-*O*- α -L-rhamnopyranoside

CAS Registry Number: 113137-49-8

Molecular Formula: C₂₈H₃₂O₁₅

Molecular Weight: 608.552

Accurate Mass: 608.174125

Percentage Composition: C 55.26%; H 5.30%; O 39.44%

Biological Source: Isol. from *Cleome droserifolia*

>>Derivative: 3-*O*- β -D-Galactofuranoside

CAS Registry Number: 61391-66-0

Molecular Formula: C₂₂H₂₂O₁₂

Molecular Weight: 478.409

Accurate Mass: 478.11113

Percentage Composition: C 55.23%; H 4.63%; O 40.13%

Biological Source: Isol. from leaves of *Onobrychis angustifolia*

>>Derivative: 3-*O*- β -D-Galactopyranoside

Synonym(s): Cacticin

CAS Registry Number: 6743-92-6

Molecular Formula: C₂₂H₂₂O₁₂

Molecular Weight: 478.409

Accurate Mass: 478.11113

Percentage Composition: C 55.23%; H 4.63%; O 40.13%

Biological Source: Found in *Cereus grandiflorus* and others

Physical Description: Pale yellow needles (EtOH)

Melting Point: Mp 267-269°

Optical Rotation: $[\alpha]_D^{20} -53.8$ (c, 2.0 in Py)

>>Derivative: 3-*O*- β -D-Galactopyranoside, 7-*O*- α -L-rhamnopyranoside

CAS Registry Number: 142130-50-5

Molecular Formula: C₂₈H₃₂O₁₆

Molecular Weight: 624.551

Accurate Mass: 624.16904

Percentage Composition: C 53.85%; H 5.16%; O 40.99%

Biological Source: Constit. of *Lathyrus chrysanthus*

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

CAS Registry Number: 33906-93-3

Molecular Formula: C₂₈H₃₂O₁₇

Molecular Weight: 640.551

Accurate Mass: 640.163955

Percentage Composition: C 52.50%; H 5.04%; O 42.46%

Biological Source: Isol. from *Dodonaea madagascariensis*