



CAS Registry Number: 71973-18-7

Molecular Formula: C₂₁H₂₀O₉

Molecular Weight: 416.384

Accurate Mass: 416.110735

Percentage Composition: C 60.58%; H 4.84%; O 34.58%

Biological Source: Isol. from *Cassia javanica* and *Ventilago calyculata*

Melting Point: Mp 200 dec.°

>> **Derivative:** 3-*O*-α-L-Rhamnopyranoside

Synonym(s): Frangulin A. Franguloside

CAS Registry Number: 521-62-0

Molecular Formula: C₂₁H₂₀O₉

Molecular Weight: 416.384

Accurate Mass: 416.110735

Percentage Composition: C 60.58%; H 4.84%; O 34.58%

Biological Source: Glycoside present in rhubarb root, alder buckthorn bark (*Rhamnus frangula*) and Cascara sagrada

Biological Use/Importance: Cathartic agent

Physical Description: Cryst.

Melting Point: Mp 228°

UV: [neutral] λ_{max} 225 (ε 33113); 264 (ε 19054); 282 (ε 14125); 300 (ε 9332); 430 (ε 11220) (MeOH) (Berdy)

Other Data: Frangulin, Rhamnoxanthin and Cascarin were mixts. of Frangulins A and B

Sigma: F5382

>> **Derivative:** 3-*O*-(2-*O*-Acetyl-α-L-rhamnopyranoside)

CAS Registry Number: 167696-55-1

Molecular Formula: C₂₃H₂₂O₁₀

Molecular Weight: 458.421

Accurate Mass: 458.1213

Percentage Composition: C 60.26%; H 4.84%; O 34.90%

Biological Source: Constit. of the fruit of *Rhamnus prinoides*

Melting Point: Mp 123-125°

Optical Rotation: [α]_D²¹ -104 (c, 0.1 in CHCl₃)

>> **Derivative:** 3-*O*-(2,3-Di-*O*-acetyl-α-L-rhamnopyranoside)

CAS Registry Number: 167696-53-9

Molecular Formula: C₂₅H₂₄O₁₁

Molecular Weight: 500.458

Accurate Mass: 500.131865

Percentage Composition: C 60.00%; H 4.83%; O 35.17%

Biological Source: Constit. of the fruit of *Rhamnus prinoides*

Physical Description: Gum

Optical Rotation: [α]_D²¹ -56 (c, 0.1 in CHCl₃)

>> **Derivative:** 3-*O*-(2,4-Di-*O*-acetyl-α-L-rhamnopyranoside)

CAS Registry Number: 167696-54-0

Molecular Formula: C₂₅H₂₄O₁₁

Molecular Weight: 500.458

Accurate Mass: 500.131865

Percentage Composition: C 60.00%; H 4.83%; O 35.17%

Biological Source: Constit. of the fruit of *Rhamnus prinoides*

Melting Point: Mp 228-230°

Optical Rotation: [α]_D²¹ -76 (c, 0.1 in CHCl₃)