



Percentage Composition: C 56.00%; H 4.92%; O 39.08%
Biological Source: Isol. from *Pinus massoniana* and *Helosis guyanensis*
Physical Description: Powder
Optical Rotation: $[\alpha]_D^{22} -36.1$ (c, 0.82 in MeOH)

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

CAS Registry Number: 103617-12-5

Molecular Formula: C₂₁H₂₂O₁₁
Molecular Weight: 450.398
Accurate Mass: 450.116215
Percentage Composition: C 56.00%; H 4.92%; O 39.08%
Biological Source: Isol. from *Sorghum* sp.
Physical Description: No phys. props. reported

>> **Derivative:** 7-*O*- β -D-Glucopyranoside
Synonym(s): Pyracanthoside. Miscanthoside

CAS Registry Number: 38965-51-4

Molecular Formula: C₂₁H₂₂O₁₁
Molecular Weight: 450.398
Accurate Mass: 450.116215
Percentage Composition: C 56.00%; H 4.92%; O 39.08%
Biological Source: Constit. of the bark of *Malus domestica*. Also from *Crataegus pyracantha* and *Pyrus communis*, *Mentha aquatica*, *Lasianthus* spp. and others
Melting Point: Mp 175-177°. Mp 215-216°
Optical Rotation: $[\alpha]_D -40$ (60% EtOH aq.)

>> **Derivative:** 7-*O*-(6-*O*-Acetyl- β -D-glucopyranoside)
Synonym(s): Coccinoside A

CAS Registry Number: 146555-76-2

Molecular Formula: C₂₃H₂₄O₁₂
Molecular Weight: 492.435
Accurate Mass: 492.12678
Percentage Composition: C 56.10%; H 4.91%; O 38.99%
Biological Source: Constit. of *Pyracantha coccinea*
Optical Rotation: $[\alpha]_D^{25} -41.4$ (c, 0.7 in MeOH)

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

Molecular Formula: C₂₇H₃₂O₁₆
Molecular Weight: 612.54
Accurate Mass: 612.16904
Percentage Composition: C 52.94%; H 5.27%; O 41.79%
Biological Source: Constit. of the leaves of *Crataegus phenophyrum*
Physical Description: Cryst. (EtOH aq.)
Melting Point: Mp 194-196°

>> **Derivative:** 7-*O*- β -D-Glucuronopyranoside

CAS Registry Number: 125535-06-0

Molecular Formula: C₂₁H₂₀O₁₂
Molecular Weight: 464.382
Accurate Mass: 464.09548
Percentage Composition: C 54.32%; H 4.34%; O 41.34%
Biological Source: Constit. of *Stephanomeria* spp.