



Molecular Formula: C₃₀H₄₈O₃

Molecular Weight: 456.707

Accurate Mass: 456.360345

Percentage Composition: C 78.90%; H 10.59%; O 10.51%

Biological Source: Occurs as glycosides in mistletoe, cloves (*Syzygium aromaticum*), sugar beet (*Seta vulgaris*), olive leaves, etc. Very widely distributed aglycone

Use/Importance: Possesses antiulcer props.

Biological Use/Importance: Shows antiinflammatory activity, inhibitor of type I allergic reactions

Physical Description: Cryst. (EtOH)

Melting Point: Mp 306-308°

Optical Rotation: [α]_D¹²+79.5 (CHCl₃)

Calculated Log P Data: Log P 8.59 (uncertain value) (calc)

Aldrich: 30170-1

Sigma: O5504

>>Derivative: Glycoside

Synonym(s): Triacanthoside C

CAS Registry Number: 41678-22-2

Molecular Formula: C₆₃H₁₀₂O₂₉

Molecular Weight: 1323.481

Accurate Mass: 1322.650685

Percentage Composition: C 57.17%; H 7.77%; O 35.06%

Biological Source: Isol. from pods of *Gleditsia triacanthos*

Physical Description: Acicular cryst.

Melting Point: Mp 230-234° (dec.)

Optical Rotation: [α]_D²⁰-14 (c, 0.8 in 70% MeOH aq.)

Other Data: 2 Alternative structs. possible with either 3-*O*-(XylGlcAra) or (XylAraGlc), each a GlcAraRha ester

>>Derivative: Glycoside

Synonym(s): Myrtifolioside C

CAS Registry Number: 39316-90-0

Biological Source: Isol. from leaves and twigs of *Acacia myrtifolia*

Physical Description: Amorph.

Melting Point: Mp 188-194° (as Me ester)

Other Data: Gives Glc and Gal on hydrol.

>>Derivative: Me ester

CAS Registry Number: 1724-17-0

Molecular Formula: C₃₁H₅₀O₃

Molecular Weight: 470.734

Percentage Composition: C 79.10%; H 10.71%; O 10.20%

Physical Description: Plates (MeOH)

Melting Point: Mp 204°

Optical Rotation: [α]_D+70 (CHCl₃)

>>Derivative: Ac

CAS Registry Number: 4339-72-4

Molecular Formula: C₃₂H₅₀O₄

Molecular Weight: 498.745

Accurate Mass: 498.37091

Percentage Composition: C 77.06%; H 10.10%; O 12.83%

Biological Source: Fairly widespread in plants

Physical Description: Prisms (Me₂CO/petrol)

Melting Point: Mp 260-261°

Optical Rotation: [α]_D+74 (CHCl₃)