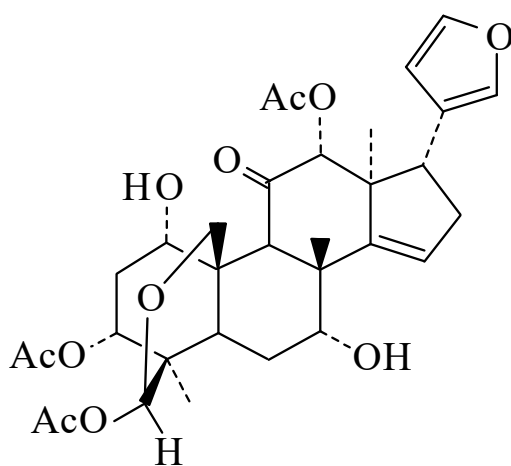




>>Entry Name: Azadirachtanin



CAS Registry Number: 98798-58-4

Related CAS Registry Numbers(s): 58812-37-6

Molecular Formula: C₃₂H₄₀O₁₁

Molecular Weight: 600.661

Accurate Mass: 600.257065

Percentage Composition: C 63.99%; H 6.71%; O 29.30%

Biological Source: Constit. of *Azadirachta indica*

Physical Description: Cryst. (Et₂O/MeOH)

Melting Point: Mp 225-226°

Optical Rotation: [α]_D +8.7 (c, 0.45 in CHCl₃)

>>Derivative: 14β,15β-Epoxyde

Synonym(s): Sendanin

CAS Registry Number: 62078-28-8

Molecular Formula: C₃₂H₄₀O₁₂

Molecular Weight: 616.661

Accurate Mass: 616.25198

Percentage Composition: C 62.33%; H 6.54%; O 31.13%

Biological Source: Constit. of *Melia azedarach* and *Trichilia roka*

Use/Importance: Insect growth inhibitor

Physical Description: Cryst.

Melting Point: Mp 254-255°

Optical Rotation: [α]_D¹⁶ +4.3 (c, 0.12 in CHCl₃)

UV: [neutral] λ_{max} 210 (ε 8790) (MeOH) (Berdy)

>>Derivative: 14β,15β-Epoxyde, 12,29-di-de-Ac, 29-(2-methylbutanoyl)

Synonym(s): Azedarachin A

CAS Registry Number: 157622-62-3

Molecular Formula: C₃₃H₄₄O₁₁

Molecular Weight: 616.704

Accurate Mass: 616.288365

Percentage Composition: C 64.27%; H 7.19%; O 28.54%

Biological Source: Constit. of *Melia azedarach*

Physical Description: Amorph. powder

Optical Rotation: [α]_D²² -10 (c, 0.05 in MeOH)

>>Derivative: 14β,15β-Epoxyde, 29-de-Ac, 29-(2-methylbutanoyl)

Synonym(s): 12-*O*-Acetylazedarachin A, 29-Isobutylsendanin (incorr.)

CAS Registry Number: 157750-73-7

Molecular Formula: C₃₅H₄₆O₁₂

Molecular Weight: 658.741

Accurate Mass: 658.29893

Percentage Composition: C 63.82%; H 7.04%; O 29.15%

Biological Source: Constit. of *Melia azedarach*

Physical Description: Amorph. powder

Optical Rotation: [α]_D²² +7.5 (c, 0.08 in MeOH)