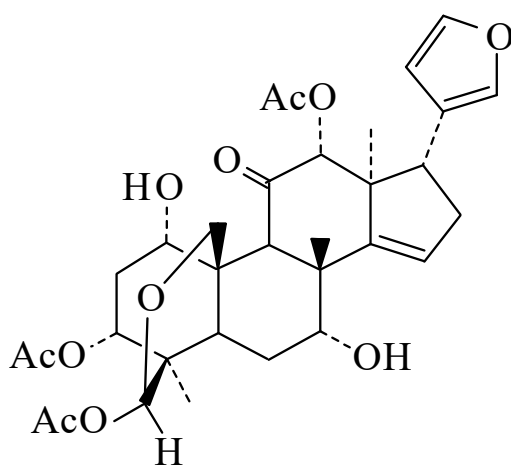




>>Entry Name: Azadirachtanin



CAS Registry Number: 98798-58-4

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

Molecular Formula:  $C_{32}H_{40}O_{11}$

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. (Et<sub>2</sub>O/MeOH)

Melting Point: Mp 225-226°

Optical Rotation:  $[\alpha]_D +8.7$  (c, 0.45 in CHCl<sub>3</sub>)

>>Derivative: 14 $\beta$ ,15 $\beta$ -Epoxide

Synonym(s): Sendanin

CAS Registry Number: 62078-28-8

Molecular Formula:  $C_{32}H_{40}O_{12}$

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:  $[\alpha]_D^{16} +4.3$  (c, 0.12 in CHCl<sub>3</sub>)

UV: [neutral]  $\lambda_{max}$  210 ( $\epsilon$  8790) (MeOH) (Berdy)

>>Derivative: 14 $\beta$ ,15 $\beta$ -Epoxide, 12,29-di-de-Ac, 29-(2-methylbutanoyl)

Synonym(s): Azedarachin A

CAS Registry Number: 157622-62-3

Molecular Formula:  $C_{33}H_{44}O_{11}$

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:  $[\alpha]_D^{22} -10$  (c, 0.05 in MeOH)

>>Derivative: 14 $\beta$ ,15 $\beta$ -Epoxide, 29-de-Ac, 29-(2-methylbutanoyl)

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

CAS Registry Number: 157750-73-7

Molecular Formula:  $C_{35}H_{46}O_{12}$

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:  $[\alpha]_D^{22} +7.5$  (c, 0.08 in MeOH)