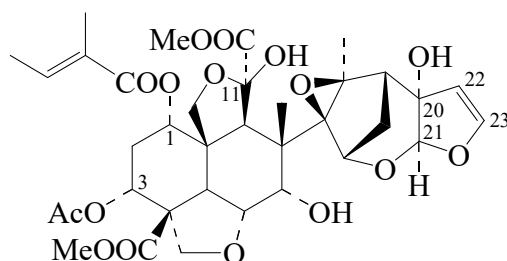




>>Entry Name: Azadirachtin, 9CI

Synonym(s): Azadirachtin A



CAS Registry Number: 11141-17-6

Molecular Formula: $C_{35}H_{44}O_{16}$

Molecular Weight: 720.723

Accurate Mass: 720.26294

Percentage Composition: C 58.33%; H 6.15%; O 35.52%

General Statement: Struct. twice revised. Current struct. assignment dates from 1985

Biological Source: Constit. of seeds of *Melia azedarach* and the Indian neem tree *Azadirachta indica*

Use/Importance: Very active insect phagorepellant (antifeedant) and systemic growth disruptor

Physical Description: Microcryst. powder

Melting Point: Mp 155-158°

Optical Rotation: $[\alpha]_D -65.4$ (c, 0.2 in $CHCl_3$)

UV: [neutral] λ_{max} 221 (ϵ 7300) (MeOH) (Derep)

Other Data: Unstable in soln.

Aldrich: 39876-4

Sigma: A7430

>>Derivative: O^3 -De-Ac, 3-cinnamoyl

Synonym(s): 3-Deacetyl-3-cinnamoylazadirachtin

CAS Registry Number: 113589-90-5

Molecular Formula: $C_{42}H_{48}O_{16}$

Molecular Weight: 808.832

Accurate Mass: 808.29424

Percentage Composition: C 62.37%; H 5.98%; O 31.65%

Biological Source: Constit. of *Azadirachta indica*

Optical Rotation: $[\alpha]_D +3.7$ (c, 0.1 in $CHCl_3$)

>>Derivative: O^1 -Detigloyl, O^3 -de-Ac, O^3 -tigloyl

Synonym(s): 11-Hydroxyazadirachtin B

CAS Registry Number: 181298-69-1

Molecular Formula: $C_{33}H_{42}O_{15}$

Molecular Weight: 678.686

Accurate Mass: 678.252375

Percentage Composition: C 58.40%; H 6.24%; O 35.36%

Biological Source: Constit. of *Azadirachta indica*

Physical Description: Cryst.

Melting Point: Mp 160-162°

>>Derivative: 22,23-Dihydro, 23 β -methoxy

Synonym(s): Vepaol. 22,23-Dihydro-23-methoxyazadirachtin

CAS Registry Number: 103708-07-2

Molecular Formula: $C_{36}H_{48}O_{17}$

Molecular Weight: 752.765

Accurate Mass: 752.289155

Percentage Composition: C 57.44%; H 6.43%; O 36.13%

Biological Source: Constit. of kernels of *Azadirachta indica*

Optical Rotation: $[\alpha]_D^{20} -8.1$ (c, 0.1 in $CHCl_3$)