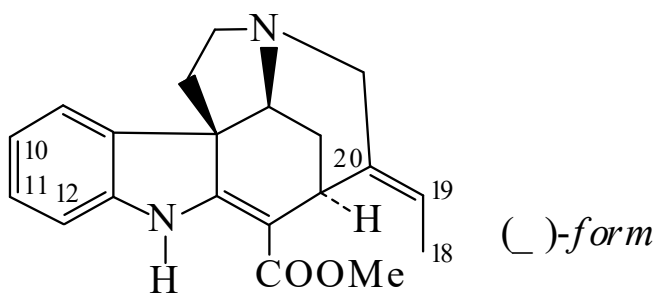




>>Entry Name: Akuammicine

Synonym(s): Methyl 2,16,19,20-tetradehydrocuran-17-oate, 9CI



Molecular Formula: C₂₀H₂₂N₂O₂

Molecular Weight: 322.406

Accurate Mass: 322.168128

Percentage Composition: C 74.51%; H 6.88%; N 8.69%; O 9.93%

>>Variant: (+)-form

Molecular Formula: C₂₀H₂₂N₂O₂

Molecular Weight: 322.406

Accurate Mass: 322.168128

Percentage Composition: C 74.51%; H 6.88%; N 8.69%; O 9.93%

Source/Synthesis: Obt. by resolu. of racemate

Melting Point: Mp 181-182.5°

Optical Rotation: [α]_D²³ +720 (c, 0.24 in MeOH)

>>Variant: (-)-form

CAS Registry Number: 639-43-0

Molecular Formula: C₂₀H₂₂N₂O₂

Molecular Weight: 322.406

Accurate Mass: 322.168128

Percentage Composition: C 74.51%; H 6.88%; N 8.69%; O 9.93%

Biological Source: Alkaloid from *Picralima nitida* (*P. klaineana*), *Alstonia scholaris* and other *Alstonia* spp., several *Vinca* spp., *Rauwolfia volkensii*, seeds of *Hunteria congolana*, *Catharanthus microphyllus*, *Cabucala erythrocarpa* leaves, and *Pandaca ochracea* (Apocynaceae)

Melting Point: Mp 177.5°

Optical Rotation: [α]_D¹⁹ -738 (CHCl₃)

pKa Value: pK_a 7.45

UV: [neutral] $\lambda_{\max}$ 228 (ϵ 12300); 298 (ϵ 11800); 328 (ϵ 17400) (MeOH) (Berdy) [neutral] $\lambda_{\max}$ 227 (); 300 (); 330 () (EtOH) (Berdy)

>>Derivative: Hydrochloride

Melting Point: Mp 144° (hydrate). Mp 171° (anhyd.)

>>Derivative: Picrate

Melting Point: Mp 169°

>>Derivative: N^b-Oxide

Synonym(s): Akuammicine N^b-oxide

CAS Registry Number: 60048-86-4

Molecular Formula: C₂₀H₂₂N₂O₃

Molecular Weight: 338.405

Accurate Mass: 338.163043

Percentage Composition: C 70.99%; H 6.55%; N 8.28%; O 14.18%

Biological Source: Alkaloid from *Alstonia scholaris* root, *Alstonia angustifolia* stem bark, *Rauwolfia* spp. and *Tabernaemontana* spp. (Apocynaceae)

Physical Description: Amorph. powder

Melting Point: Mp 200.7-200.8°

Optical Rotation: [α]_D²² -624.5 (c, 0.55 in CHCl₃)

>>Derivative: N^b-Me

Synonym(s): Akuammicine N^b-methosalt

Molecular Formula: C₂₁H₂₅N₂O₂⁽⁺⁾