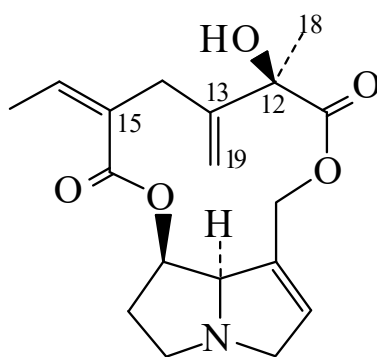




>>Entry Name: Seneciphylline

Synonym(s): 13,19-Didehydro-12-hydroxysenecionan-11,16-dione, 9Cl. α -Longilobine. Jacodine



Absolute
configuration

CAS Registry Number: 480-81-9

Molecular Formula: $C_{18}H_{23}NO_5$

Molecular Weight: 333.383

Accurate Mass: 333.157624

Percentage Composition: C 64.85%; H 6.95%; N 4.20%; O 24.00%

Biological Source: Alkaloid from numerous *Senecio* and *Crotalaria* spp., also *Erechtites hieracifolia* and *Erechtites quadridentata* (Compositae, Leguminosae)

Use/Importance: Cause of grazing toxicity in animals

Physical Description: Plates (EtOAc)

Melting Point: Mp 217-218 dec.°

Optical Rotation: $[\alpha]_D^{17} -139$ (CHCl₃)

Hazard & Toxicity: LD₅₀ (rat, ipr) 77 mg/kg, hepatotoxic, other exp. toxic effects

>>Derivative: N-Oxide

Synonym(s): Seneciphylline N-oxide

CAS Registry Number: 38710-26-8

Molecular Formula: $C_{18}H_{23}NO_6$

Molecular Weight: 349.383

Accurate Mass: 349.152539

Percentage Composition: C 61.88%; H 6.64%; N 4.01%; O 27.48%

Biological Source: Alkaloid from whole plants of *Senecio persoonii* (Compositae)

Optical Rotation: $[\alpha]_D^{20} -56$ (c, 1 in EtOH)

>>Derivative: O-Ac

Synonym(s): Seneciphyllinine. 12-Acetylseneciphylline

CAS Registry Number: 90341-45-0

Molecular Formula: $C_{20}H_{25}NO_6$

Molecular Weight: 375.421

Accurate Mass: 375.168189

Percentage Composition: C 63.99%; H 6.71%; N 3.73%; O 25.57%

Biological Source: Alkaloid from *Gynura segetum* and *Senecio pterophorus* (Compositae)

Physical Description: Oil

>>Derivative: 13 ξ ,19-Epoxyde

Synonym(s): Seneciphylline epoxide

CAS Registry Number: 106356-85-8

Molecular Formula: $C_{18}H_{23}NO_6$

Molecular Weight: 349.383

Accurate Mass: 349.152539

Percentage Composition: C 61.88%; H 6.64%; N 4.01%; O 27.48%

Biological Source: Alkaloid from *Senecio megaphyllus* and *Senecio usgorensis* (Compositae)

Other Data: Alkaloid not named in the lit.