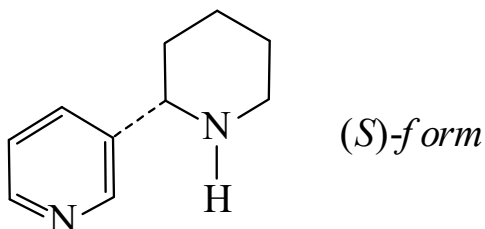




>>Entry Name: 3-(2-Piperidinyl)pyridine, 9CI

Synonym(s): 2-(3-Pyridinyl)piperidine. **Anabasine**, JMAF. Nicotimine. Neonicotine



CAS Registry Number: 40774-73-0

Related CAS Registry Numbers(s): 15251-47-5

Molecular Formula: C₁₀H₁₄N₂

Molecular Weight: 162.234

Accurate Mass: 162.115698

Percentage Composition: C 74.04%; H 8.70%; N 17.27%

Aldrich: 28459-9

>>Variant: (R)-form

CAS Registry Number: 34366-21-7

Molecular Formula: C₁₀H₁₄N₂

Molecular Weight: 162.234

Accurate Mass: 162.115698

Percentage Composition: C 74.04%; H 8.70%; N 17.27%

Biological Source: Isol. from *Malacocarpus crithmifolius*

Physical Description: Oil

Boiling Point: Bp₁₅ 145-150°

Optical Rotation: $[\alpha]_D^{20} +10.1$ (neat)

Refractive Index: n_D²⁰ 1.5412

Other Data: Clearly of low opt. purity

>>Variant: (S)-form

CAS Registry Number: 494-52-0

Molecular Formula: C₁₀H₁₄N₂

Molecular Weight: 162.234

Accurate Mass: 162.115698

Percentage Composition: C 74.04%; H 8.70%; N 17.27%

Biological Source: Alkaloid from *Anabasis aphylla*, *Nicotiana tabacum*, many other *Nicotiana* spp.(Chenopodiaceae, Solanaceae) and many other spp. in several families.

Also in marine ribbon worms and a component of ant venoms

Biological Use/Importance: Insecticide. Now superseded

Melting Point: Mp 25-30°

Boiling Point: Bp 276°. Bp₂ 104-105°

Optical Rotation: $[\alpha]_D^{24} -79.2$ (c, 0.5 in MeOH) (synthetic). $[\alpha]_D^{24} -41.5$ (c, 1.0 in C₆H₆)

Solubility: BERDY SOL: Sol. H₂O

pKa Value: pK_{a2} 3.21 (30°)

Hazard & Toxicity: Exp. reprod. effects and teratogen. LD₅₀ (gpg, scu) 22 mg/kg

>>Derivative: Dipicrate

Melting Point: Mp 205°