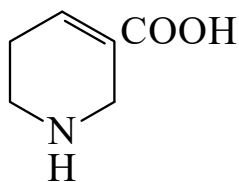




>>Entry Name: 1,2,5,6-Tetrahydro-3-pyridinecarboxylic acid, 9CI

Synonym(s): Guvacine. Δ^3 -Tetrahydronicotinic acid



CAS Registry Number: 498-96-4

Molecular Formula: $C_6H_9NO_2$

Molecular Weight: 127.143

Accurate Mass: 127.063329

Percentage Composition: C 56.68%; H 7.13%; N 11.02%; O 25.17%

Biological Source: Alkaloid from *Areca catechu* (betel nut) (Palmae)

Use/Importance: Potent inhibitor of 4-Aminobutanoic acid (GABA) uptake

Melting Point: Mp 293-295 dec. $^{\circ}$ (271-272 $^{\circ}$)

Sigma: G8891

>>Derivative: Hydrochloride

Melting Point: Mp 316 dec. $^{\circ}$

>>Derivative: Me ester

Synonym(s): Guvacoline. Norarecoline

CAS Registry Number: 495-19-2

Molecular Formula: $C_7H_{11}NO_2$

Molecular Weight: 141.169

Accurate Mass: 141.078979

Percentage Composition: C 59.56%; H 7.85%; N 9.92%; O 22.67%

Biological Source: Alkaloid from *Areca catechu* (Palmae)

Melting Point: Mp 27 $^{\circ}$

Boiling Point: Bp_{13.5} 114 $^{\circ}$ (lit. gives a pressure range)

>>Derivative: Me ester; hydrochloride

Melting Point: Mp 121-122 $^{\circ}$

>>Derivative: N-Me

References:

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McElvain, S.M. *et al.*, *J.A.C.S.*, 1946, **68**, 1049, (*synth*)

Spiteller-Friedmann, M. *et al.*, *Monatsh. Chem.*, 1965, **96**, 104, (*ms*)

Morlacchi, F. *et al.*, *Ann. Chim. (Rome)*, 1967, **57**, 1456, (*synth*)

Krogsgaard-Larsen, P. *et al.*, *Acta Chem. Scand., Ser. B*, 1978, **32**, 327, (*synth, pharmacol*)