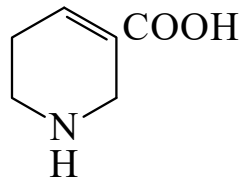
>>**Entry Name: 1,2,5,6-Tetrahydro-3-pyridinecarboxylic acid,** 9CI
Synonym(s): Guvacine. Δ^3-Tetrahydronicotinic acid



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.° (271-272°)

Sigma: G8891

>>**Derivative:** Hydrochloride
Melting Point: Mp 316 dec.°

>>**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°
Boiling Point: $Bp_{13.5}$ 114° (lit. gives a pressure range)

>>**Derivative:** Me ester; hydrochloride

Melting Point: Mp 121-122°

>>**Derivative:** *N*-Me

References:

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Wohl, A. *et al.*, *Ber.*, 1907, **40**, 4698, *(struct)*
Freudenberg, K.*, Ber.*, 1918, **51**, 976; 1668, *(struct)*
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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)*
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