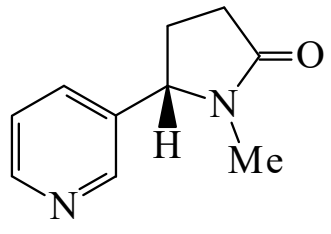
>>**Entry Name: Cotinine,** INN
Synonym(s): 1-Methyl-5-(3-pyridinyl)-2-pyrrolidinone, 9CI



(*S*)-*form*

CAS Registry Number: 75202-09-4

Molecular Formula: $C_{10}H_{12}N_2O$
Molecular Weight: 176.218
Accurate Mass: 176.094963
Percentage Composition: C 68.16%; H 6.86%; N 15.90%; O 9.08%
Physical Description: Viscous oil
Development Status: Never marketed
Boiling Point: Bp_6 210-211°
Calculated Log P Data: Log P –0.47 (uncertain value) (calc)

>>**Variant:** (*S*)-form
CAS Registry Number: 486-56-6
Molecular Formula: $C_{10}H_{12}N_2O$
Molecular Weight: 176.218
Accurate Mass: 176.094963
Percentage Composition: C 68.16%; H 6.86%; N 15.90%; O 9.08%
Biological Source: Alkaloid from leaf tobacco (*Nicotiana tabacum*), also detected in *Duboisia hopwoodii* (Solanaceae)
Biological Use/Importance: Antidepressant. Nicotine metabolite, used as a biomarker for exposure to cigarette smoke. Shows behavioural effects in animals
Melting Point: Mp 40-43°
Boiling Point: Bp 210-211° 6
Other Data: V. hygroscopic. Prob. artifact of autoxidn. of nicotine
Hazard & Toxicity: LD_{50} (mus, orl) 1604 mg/kg. LD_{50} (mus, ipr) 930 mg/kg

Aldrich: 28471-8
Fluka: 27699
Sigma: C5923

>>**Derivative:** Fumarate (2:1)
Synonym(s): Cotinine fumarate, USAN**.** Scotine

CAS Registry Number: 5695-98-7

>>**Derivative:** Picrate

Melting Point: Mp 102-103°

>>**Variant:** (±)-form
CAS Registry Number: 15569-85-4
Molecular Formula: $C_{10}H_{12}N_2O$
Molecular Weight: 176.218
Accurate Mass: 176.094963
Percentage Composition: C 68.16%; H 6.86%; N 15.90%; O 9.08%
Source/Synthesis: Synthetic
Physical Description: Yellow oil
Boiling Point: Bp 210-211°

References: