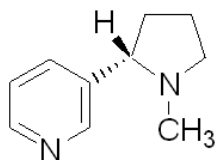


Product Information

(-)-Nicotine solution,
1.0 mg/mL±5% in methanol
drug standard

Catalog Number **N5511**
Lot Number 119K8713
Storage Temperature 2–8 °C

CAS RN 54-11-5
Synonym: 3-(1-Methyl-2-pyrrolidinyl)pyridine



Product Description
Molecular Formula: C₁₀H₁₄N₂
Molecular Weight: 162.23

DEA Class: Formulation of a non controlled substance

Concentration: 1.03 mg of (-)-nicotine/mL of GC grade methanol, concentration verified by UV.

Expiration Date: November 2012

Precautions and Disclaimer

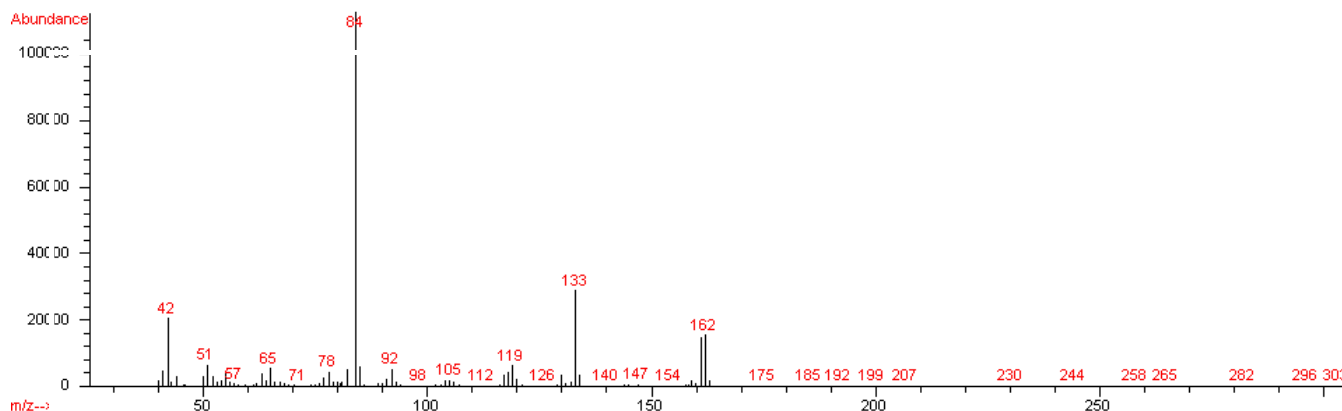
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the product at 2–8 °C. If stored at 2–8 °C in an airtight container, protected from light, decomposition of the product is less than 1% in 24 months. After opening, concentration may change due to loss of solvent.

CWM,MAM,PHC 05/10-1

70 eV Electron Ionization Mass Spectrum



Hewlett-Packard 5890 Series II Gas Chromatograph
Hewlett-Packard 5971 Mass Selective Detector
Hewlett-Packard G1034C MS ChemStation (HP-DOS series)

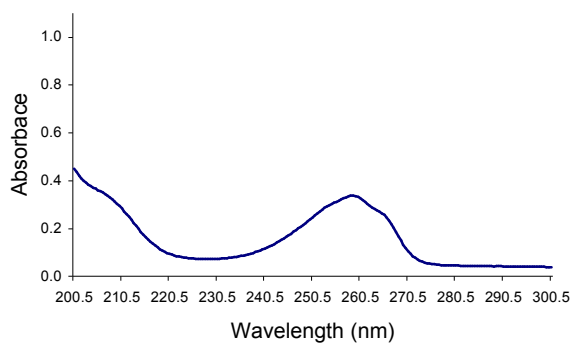
FT-IR



Nicolet 380 FT-IR Smart Orbit (ATR)

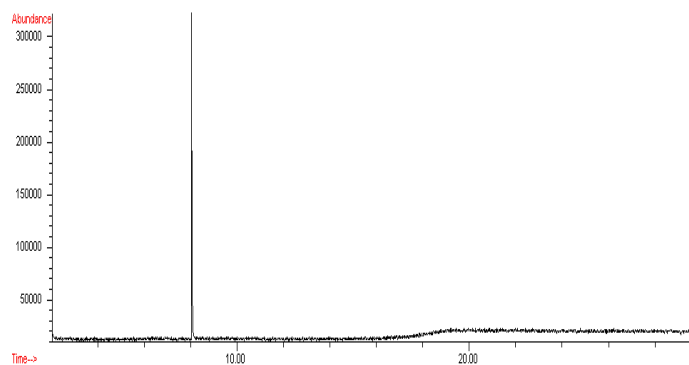
Ultraviolet Spectrum

Peak	258.5 nm
Absorbance	0.3373
Solvent	0.2 N H ₂ SO ₄
Dilution	1:99 (v/v)



Beckman-Coulter DU 800

Capillary Gas Chromatography



Column Supelco SPB-1 (Catalog Number 24162)
I.D. 0.20 mm **Length** 15 m **Film Thickness** 0.20 µm
Oven Temperature 50 °C (2 minutes), then
15 °C/minute to 300 °C, hold 11 minutes
Injector Temperature 250 °C, Split
Detector Hewlett-Packard 5971
Mass Selective Detector (70 eV, 40-500 m/z)

Hewlett-Packard 5890

Sigma brand products are sold through Sigma-Aldrich, Inc.
Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.