

## Product Information

### (-)-Nicotine solution

1.0 mg/mL $\pm$ 5% in methanol

analytical standard, for drug analysis

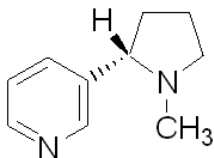
Catalog Number **N5511**

Lot Number 101M8718

Storage Temperature 2–8 °C

CAS RN 54-11-5

Synonyms: 3-(1-Methyl-2-pyrrolidiny)pyridine



### Product Description

Molecular Formula: C<sub>10</sub>H<sub>14</sub>N<sub>2</sub>

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: January 2015

### Precautions and Disclaimer

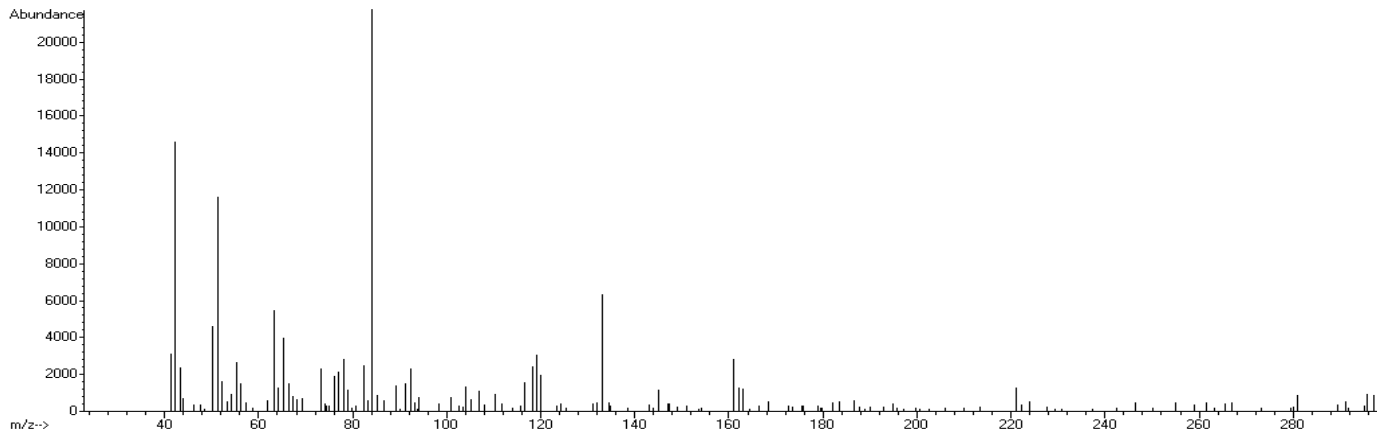
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

### Storage/Stability

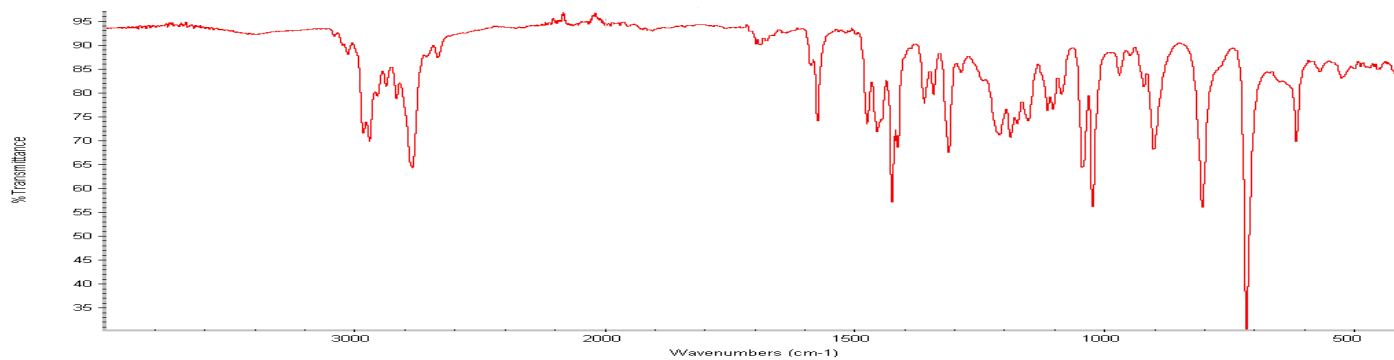
Store the product at 2–8 °C. If stored at 2–8 °C in an airtight container, protected from light, decomposition of the product is less than 1% in 24 months. After opening, concentration may change due to loss of solvent.

CMW,MAM 02/16-1

### 70 eV Electron Ionization Mass Spectrum



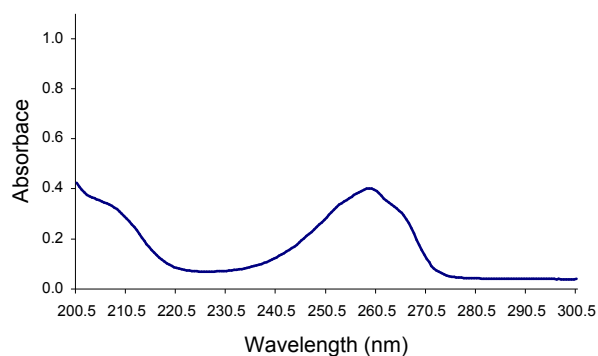
### FT-IR



Nicolet 380 FT-IR Smart Orbit(ATR)

### Ultraviolet Spectrum

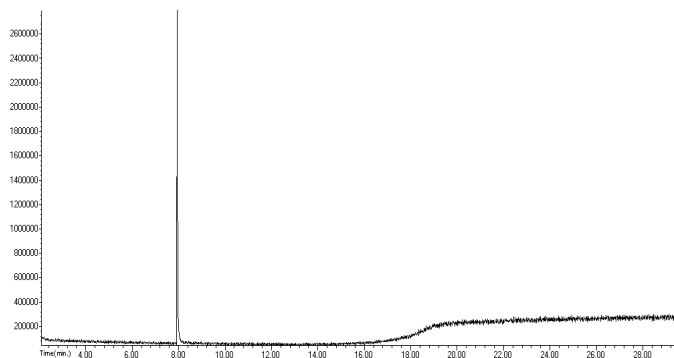
|                   |                                      |
|-------------------|--------------------------------------|
| <b>Peak</b>       | 258.5 nm                             |
| <b>Absorbance</b> | 0.4020                               |
| <b>Solvent</b>    | 0.2 N H <sub>2</sub> SO <sub>4</sub> |
| <b>Dilution</b>   | 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  $\mu$ m  
**Oven Temperature** 50 °C (2 minutes), then  
15 °C/minute to 300 °C, hold 11 minutes  
**Injector Temperature** 250 °C, Split  
**Detector** Hewlett-Packard 6890  
Mass Selective Detector (70 eV, 40-500 m/z)



Hewlett-Packard 6890