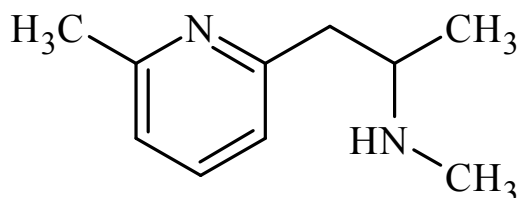




N-Methyl-1-(6-methylpyridin-2-yl)propan-2-amine

The Drug Enforcement Administration's Special Testing and Research Laboratory generated this monograph using structurally confirmed reference material.



1. GENERAL INFORMATION

IUPAC Name:	N-Methyl-1-(6-methylpyridin-2-yl)propan-2-amine
CAS#:	Not Available
Synonyms:	Not Available
Source:	DEA Reference Material Collection
Appearance:	Pale yellow powder
UV_{max}(nm):	Not Determined

2. CHEMICAL AND PHYSICAL DATA

2.1 CHEMICAL DATA

Form	Chemical Formula	Molecular Weight	Melting Point (°C)
Base	C ₁₀ H ₁₆ N ₂	164	Not Determined
HCl	C ₁₀ H ₁₆ N ₂ HCl	200	Not Determined



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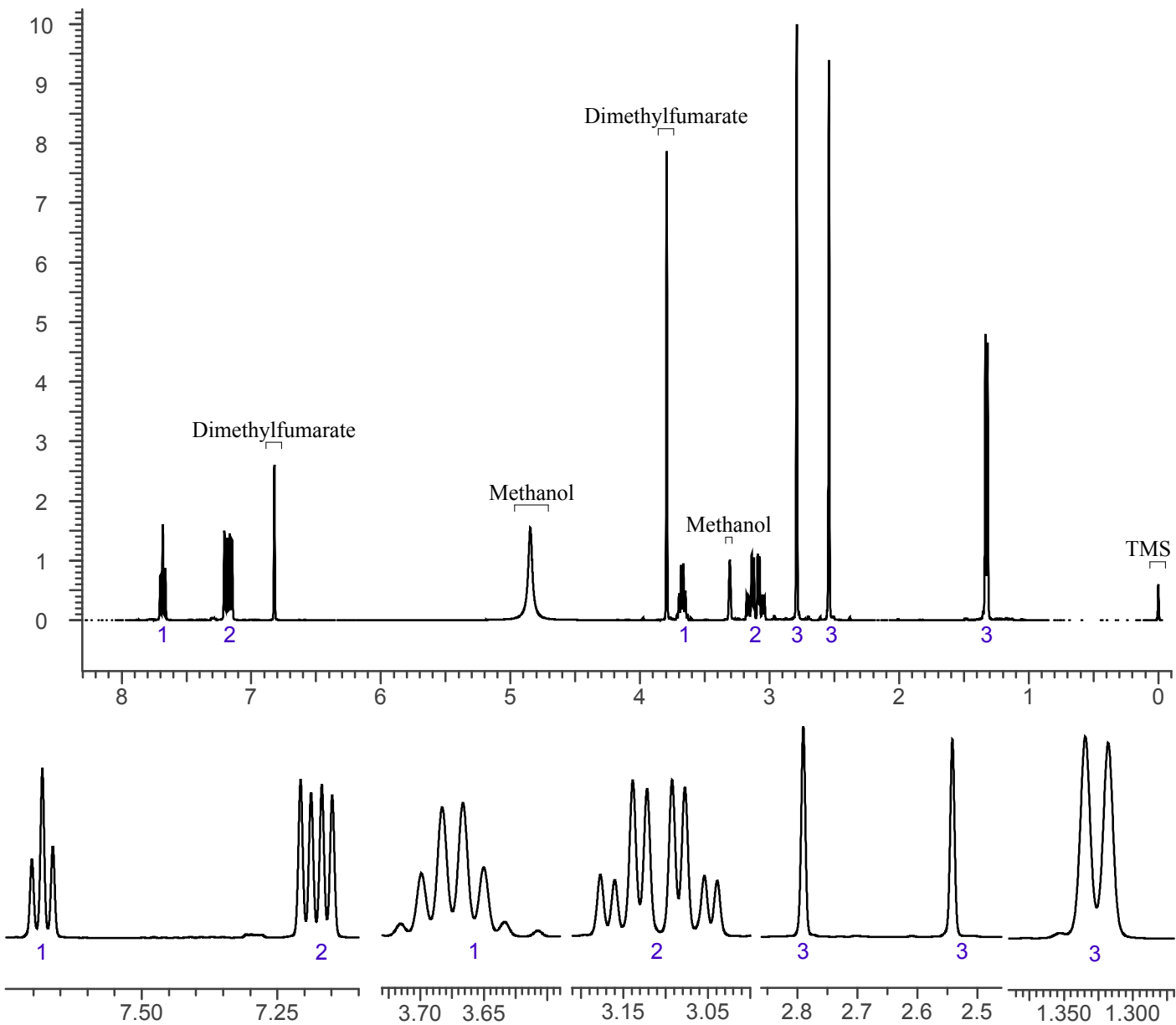
3. QUALITATIVE DATA

3.1 NUCLEAR MAGNETIC RESONANCE

Sample Preparation: Dilute analyte to ~4 mg/mL in CD₃OD containing TMS for 0 ppm reference and dimethylfumarate as quantitative internal standard.

Instrument: 400 MHz NMR spectrometer
Parameters: Spectral width: at least containing -3 ppm through 13 ppm
Pulse angle: 90°
Delay between pulses: 45 seconds

¹HNMR: N-Methyl-1-(6-methylpyridin-2-yl)propan-2-amine HCl Lot RM-140210-02, 400MHz





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3.2 GAS CHROMATOGRAPHY/MASS SPECTROMETRY

Sample Preparation: Dilute analyte ~3 mg/mL base extracted into CHCl₃.

Instrument: Agilent gas chromatograph operated in split mode with MS detector

Column: HP-5 MS (or equivalent); 30m x 0.25 mm x 0.25 μm

Carrier Gas: Helium at 1 mL/min

Temperatures: Injector: 280°C

MSD transfer line: 280°C

MS Source: 230°C

MS Quad: 150°C

Oven program:

1) 100°C initial temperature for 1.0 min

2) Ramp to 280°C at 12 °C/min

3) Hold final temperature for 9.0 min

Injection Parameters: Split Ratio = 25:1, 1 μL injected

MS Parameters: Mass scan range: 30-550 amu

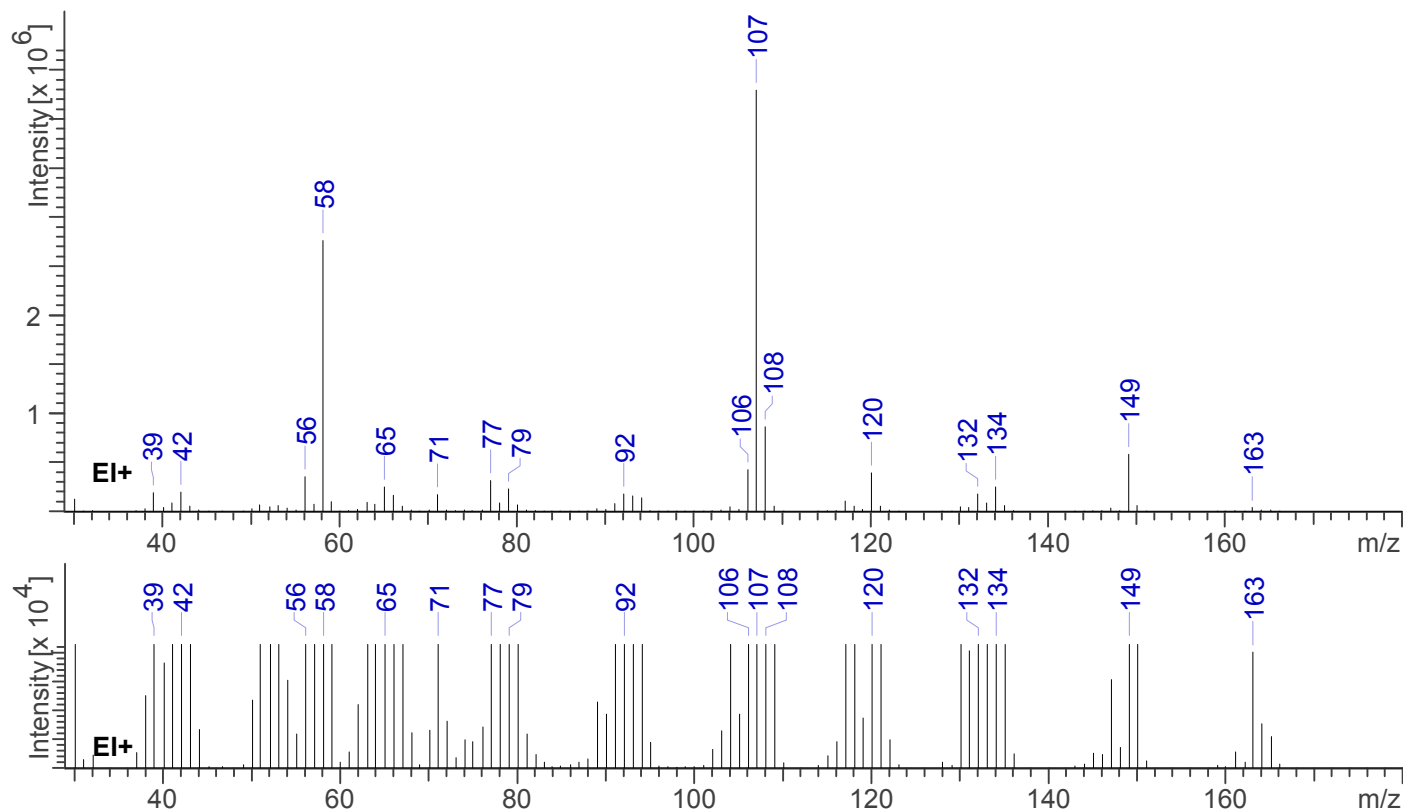
Threshold: 100

Tune file: stune.u

Acquisition mode: scan

Retention Time: 4.662 min

EI Mass Spectrum: N-Methyl-1-(6-methylpyridin-2-yl)propan-2-amine HCl, Lot RM-140210-02





N-Methyl-1-(6-methylpyridin-2-yl)propan-2-amine

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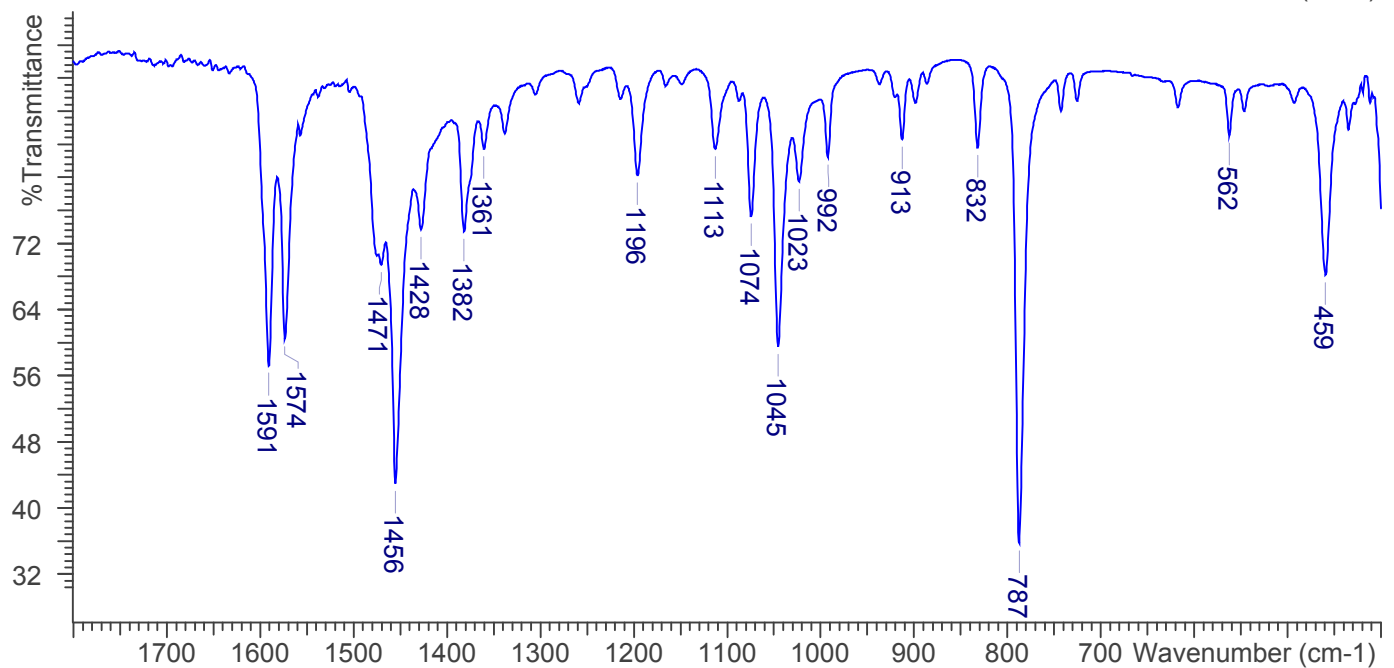
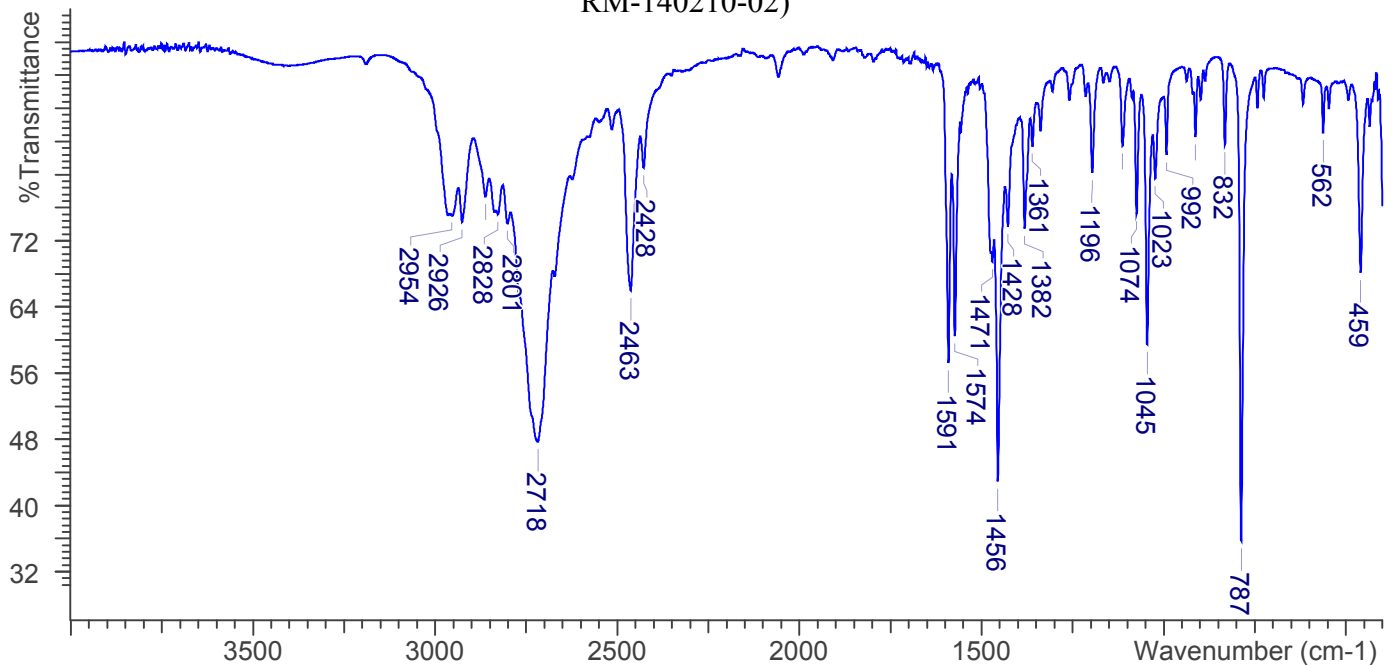


3.3 INFRARED SPECTROSCOPY (FTIR)

Instrument: FTIR with diamond ATR attachment (1 bounce)

Scan Parameters:
Number of scans: 32
Number of background scans: 32
Resolution: 4 cm⁻¹
Sample gain: 8
Aperture: 150

FTIR ATR (Diamond, 1 Bounce): N-Methyl-1-(6-methylpyridin-2-yl)propan-2-amine HCl, Lot RM-140210-02





N-Methyl-1-(6-methylpyridin-2-yl)propan-2-amine

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4. ADDITIONAL RESOURCES

No Literature available as of 10/2016