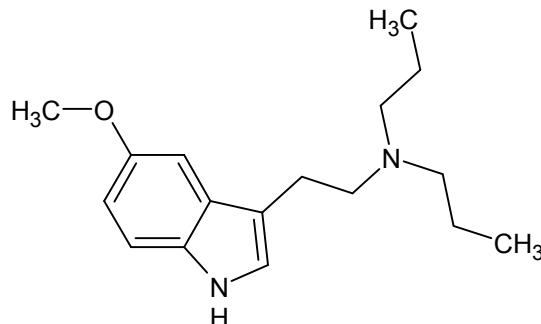




## 5-Methoxy-N,N-dipropyltryptamine

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



### 1. GENERAL INFORMATION

**IUPAC Name:** *N*-[2-(5-methoxy-1 *H*-indol-3-yl)ethyl]-*N*-propylpropan-1-amine

**CAS#:** 2427-80-7 (HCl)  
69496-75-9 (free base)

**Synonyms:** 5-MeO-DPT

**Source:** DEA Reference Material Collection

**Appearance:** Beige Powder

**UV<sub>max</sub>(nm):** Not determined

### 2. CHEMICAL AND PHYSICAL DATA

#### 2.1 CHEMICAL DATA

Form	Chemical Formula	Molecular Weight	Melting Point (°C)
Base	C <sub>17</sub> H <sub>26</sub> N <sub>2</sub> O	274	Not Determined
HCl	C <sub>17</sub> H <sub>26</sub> N <sub>2</sub> O HCl	311	190.4



## 5-Methoxy-N,N-dipropyltryptamine

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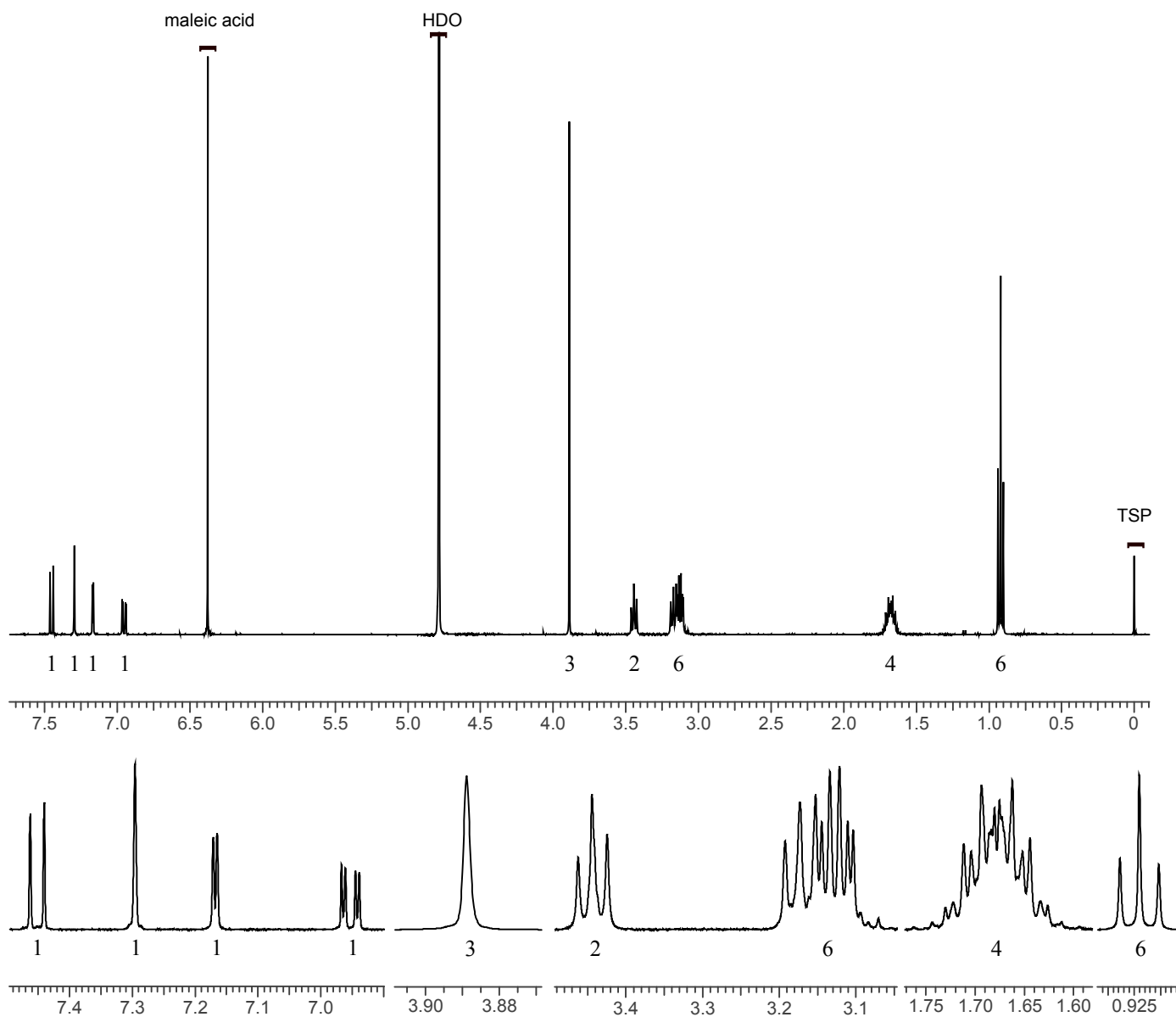
### 3. QUALITATIVE DATA

#### 3.1 NUCLEAR MAGNETIC RESONANCE

**Sample Preparation:** Dilute analyte to ~12 mg/mL in D<sub>2</sub>O containing TSP for 0 ppm reference and maleic acid 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

<sup>1</sup>HNMR: 5-Methoxy-N,N-dipropyltryptamine HCl; Lot ALB-93-4; D<sub>2</sub>O; 400MHz





## 5-Methoxy-N,N-dipropyltryptamine

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### 3.2 GAS CHROMATOGRAPHY/MASS SPECTROMETRY

**Sample Preparation:** Dilute analyte ~4 mg/mL in MeOH

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

**Column:** HP-1 MS (or equivalent); 30m x 0.25 mm x 0.25  $\mu$ m

**Carrier Gas:** Helium at 1.5 mL/min

**Temperatures:** Injector: 280°C                      MSD transfer line: 280°C

MS Source: 250°C                      MS Quad: 150°C

Oven program:

1) 100°C initial temperature for 1.0 min

2) Ramp to 300°C at 12 °C/min

3) Hold final temperature for 9.0 min

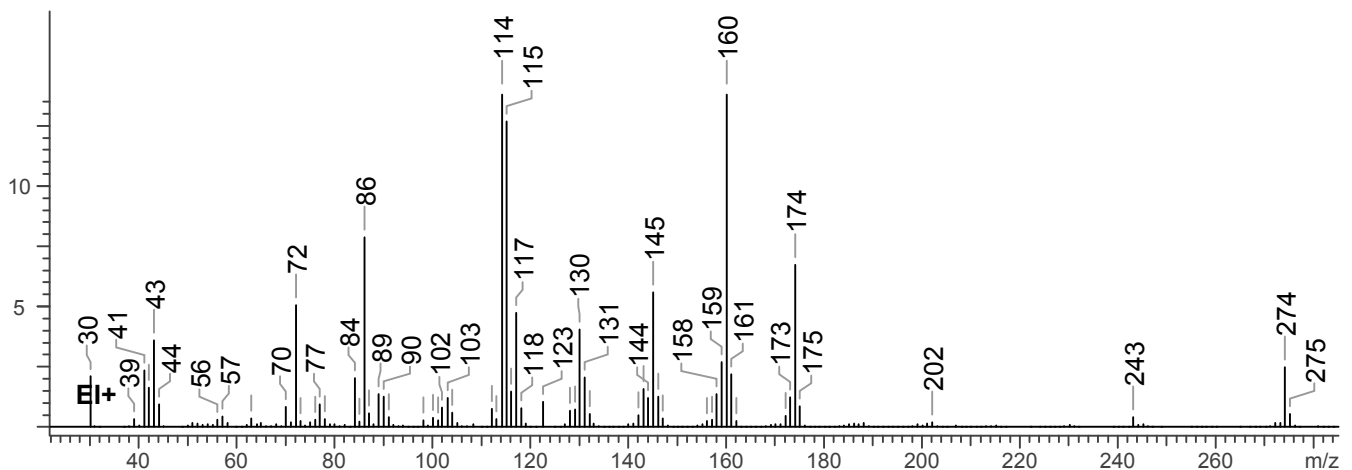
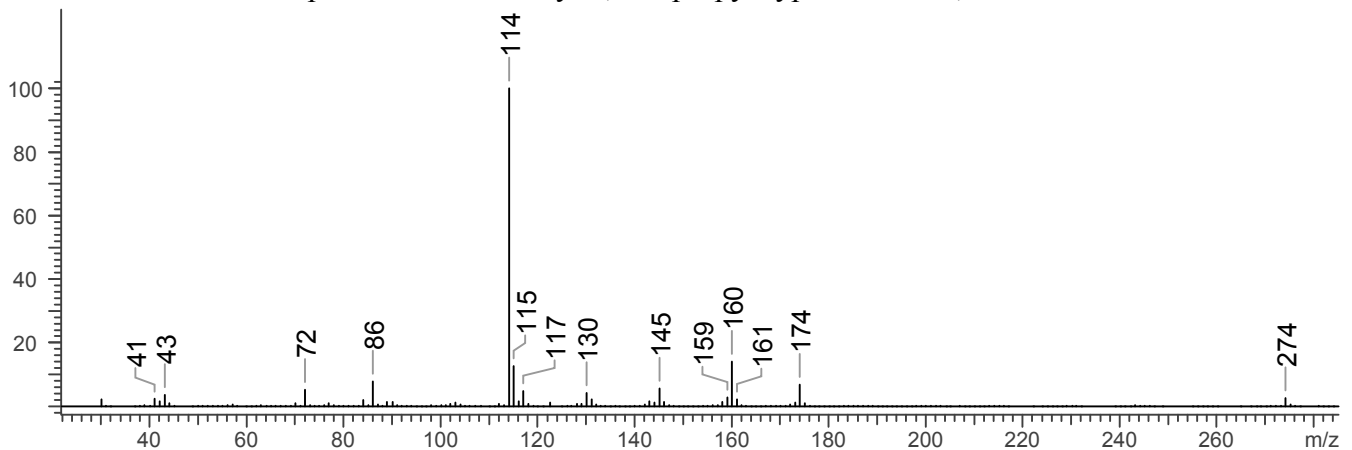
**Injection Parameters:** Split Ratio = 20:1, 1  $\mu$ L injected

**MS Parameters:** Mass scan range: 30-550 amu                      Threshold: 90

Tune file: stune.u                      Acquisition mode: scan

**Retention Time:** 14.418 min

EI Mass Spectrum: 5-Methoxy-N,N-dipropyltryptamine HCl; Lot ALB-93-4





# 5-Methoxy-N,N-dipropyltryptamine

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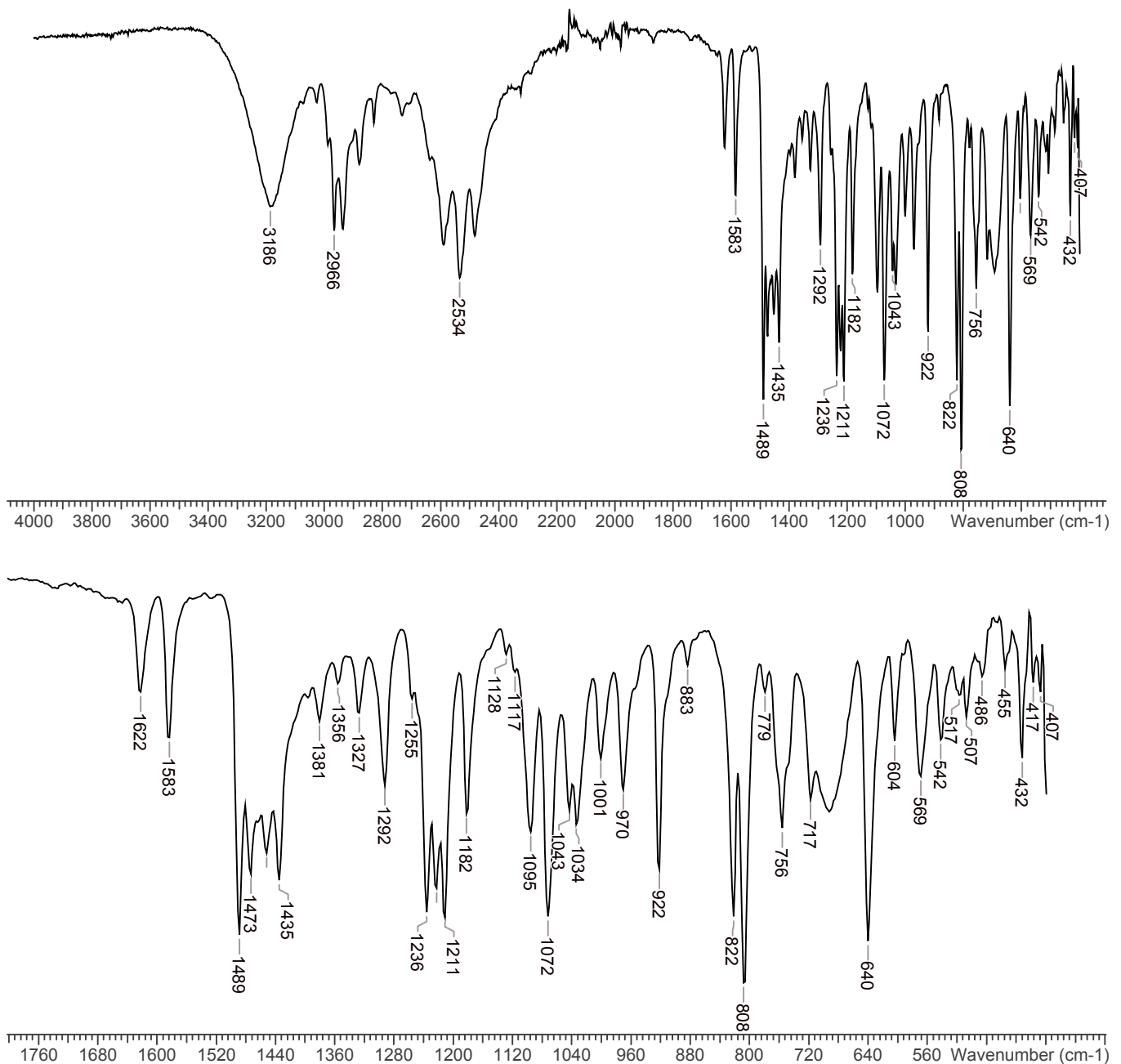


## 3.3 INFRARED SPECTROSCOPY (FTIR)

**Instrument:** FTIR with diamond ATR attachment (1 bounce)

**Scan Parameters:**  
Number of scans: 32  
Number of background scans: 32  
Resolution: 4 cm<sup>-1</sup>  
Sample gain: 8  
Aperture: 150

FTIR ATR (Diamond 1 Bounce): 5-Methoxy-N,N-dipropyltryptamine HCl; Lot ALB-93-4





## 5-Methoxy-N,N-dipropyltryptamine

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### 4. ADDITIONAL RESOURCES

[\*Wikipedia\*](#)