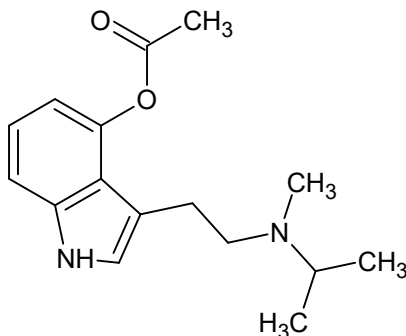




4-Acetoxy-N-methyl-N-isopropyltryptamine

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



1. GENERAL INFORMATION

IUPAC Name:	3-(2-(isopropyl(methyl)amino)ethyl)-1H-indol-4-yl acetate
CAS#:	1024612-25-6
Synonyms:	4-AcO-MIPT, 4-Acetoxy-MIPT, 3-{2-[methyl(propan-2-yl)amino]ethyl}-1H-indol-4-ylacetate
Source:	DEA Reference Material Collection
Appearance:	White 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 ₁₆ H ₂₂ N ₂ O ₂	274.36	Not Determined
HCl	C ₁₆ H ₂₂ N ₂ O ₂ HCl	310.82	Not Determined



4-Acetoxy-N-methyl-N-isopropyltryptamine

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



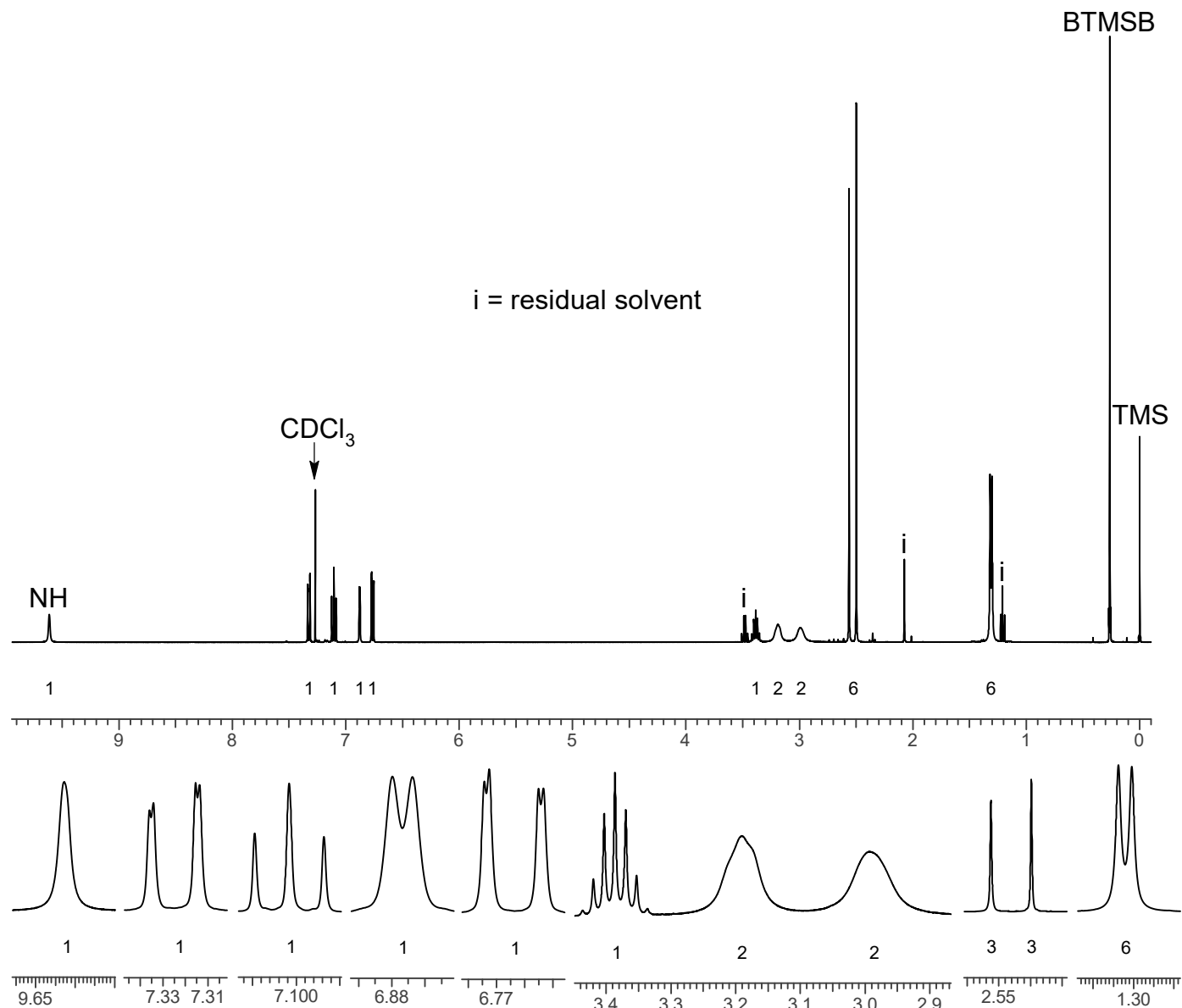
3. QUALITATIVE DATA

3.1 NUCLEAR MAGNETIC RESONANCE

Sample Preparation: Dilute analyte to ~13 mg/mL in CDCl₃ containing TMS for 0 ppm reference and 1,4-BTMSB-*d*₄ 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: 4-Acetoxy-N-methyl-N-isopropyltryptamine HCl; Lot# 0541115-2; CDCl₃; 400MHz





4-Acetoxy-N-methyl-N-isopropyltryptamine

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



3.2 GAS CHROMATOGRAPHY/MASS SPECTROMETRY

Sample Preparation: Dilute analyte ~4 mg/mL in 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 1.5 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

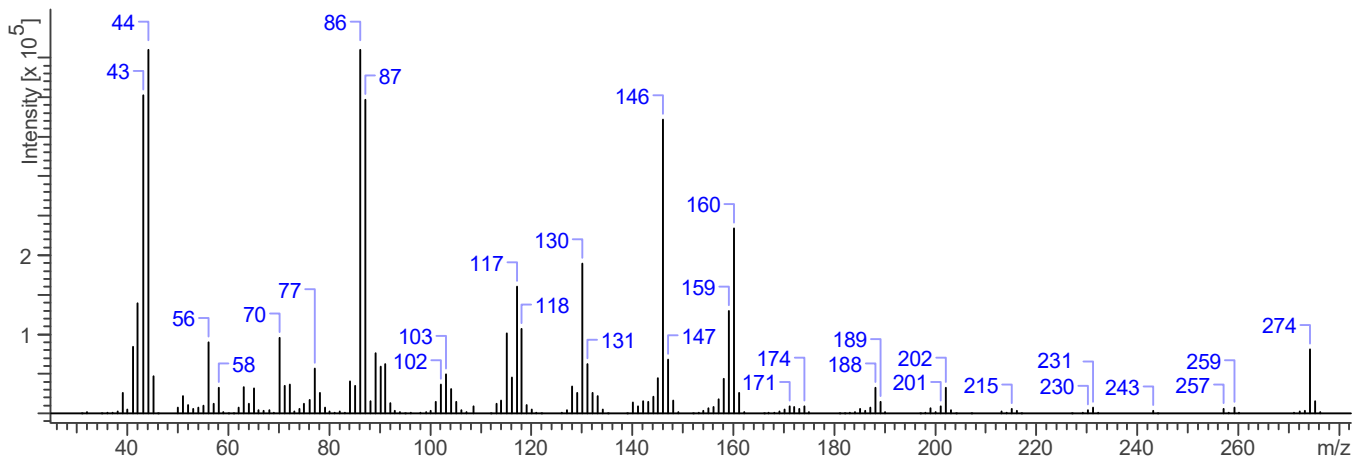
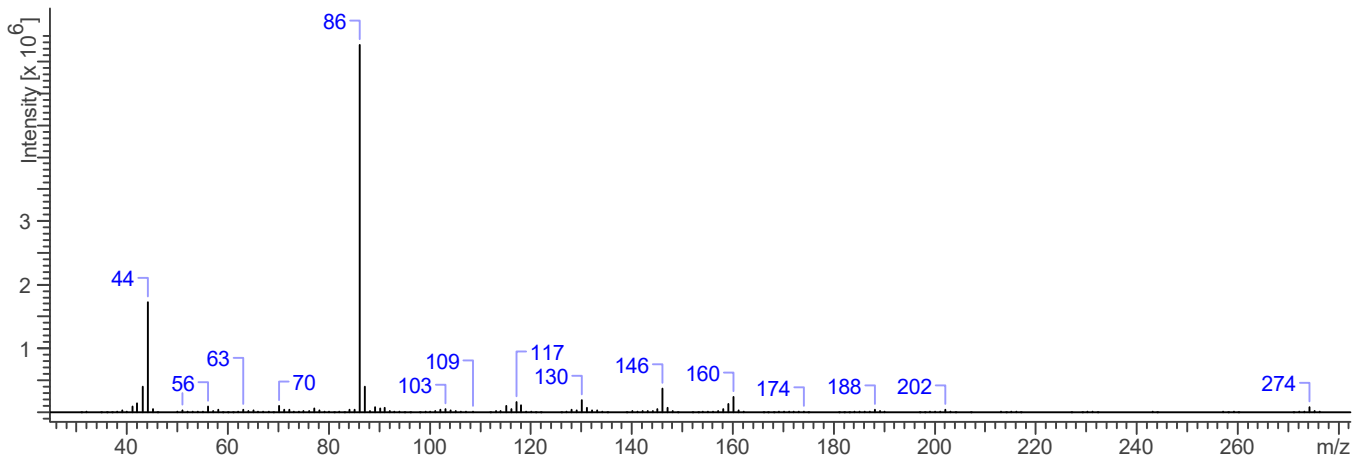
Injection Parameters: Split Ratio = 25:1, 1 μL injected

MS Parameters: Mass scan range: 30-550 amu Threshold: 150

Tune file: stune.u Acquisition mode: scan

Retention Time: 13.80 min

EI Mass Spectrum: 4-Acetoxy-N-methyl-N-isopropyltryptamine HCl; Lot# 0541115-2





4-Acetoxy-N-methyl-N-isopropyltryptamine

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



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: 1
Aperture: 150

FTIR ATR (Diamond 1 Bounce): 4-Acetoxy-N-methyl-N-isopropyltryptamine HCl; Lot# 0541115-2

