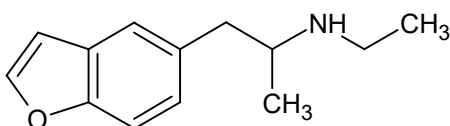




5-EAPB

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



1. GENERAL INFORMATION

IUPAC Name: 1-(1-benzofuran-5-yl)-N-ethylpropan-2-amine

CAS#: 1823776-22-2 (HCl)

Synonyms: 5-(2-ethylaminopropyl)benzofuran

Source: DEA Reference Material Collection

Appearance: White powder (Hydrochloride)

UV_{max}(nm): Not determined

2. CHEMICAL AND PHYSICAL DATA

2.1 CHEMICAL DATA

Form	Chemical Formula	Molecular Weight	Melting Point (°C)
Base	C ₁₃ H ₁₇ NO	203	Not Determined
HCl	C ₁₃ H ₁₇ NO HCl	239	154.7



5-EAPB

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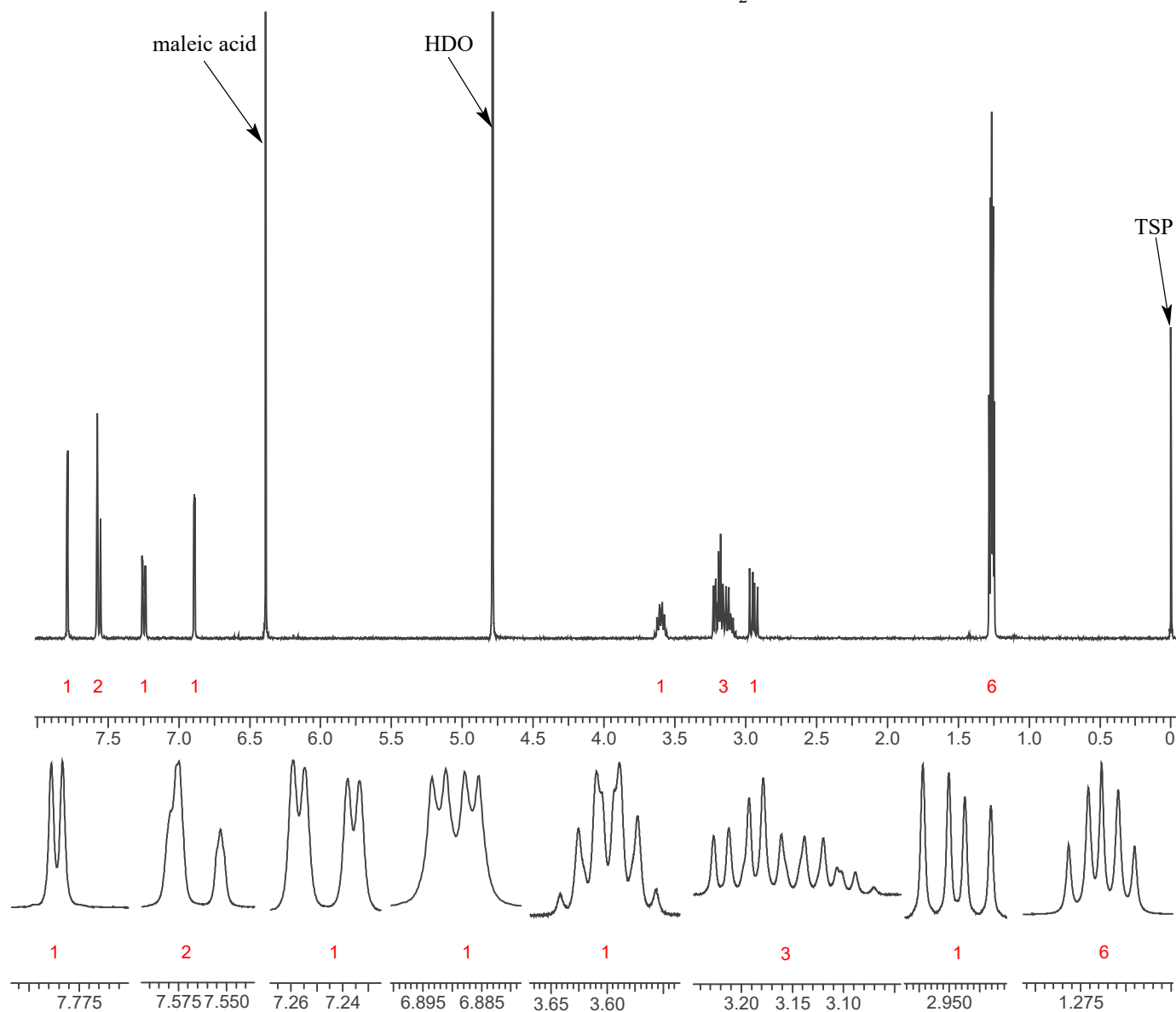
3. QUALITATIVE DATA

3.1 NUCLEAR MAGNETIC RESONANCE

Sample Preparation: Dilute analyte to ~6 mg/mL in D₂O 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

¹HNMR: 5-EAPB HCl; Lot# 0455564-11; D₂O; 400MHz





5-EAPB

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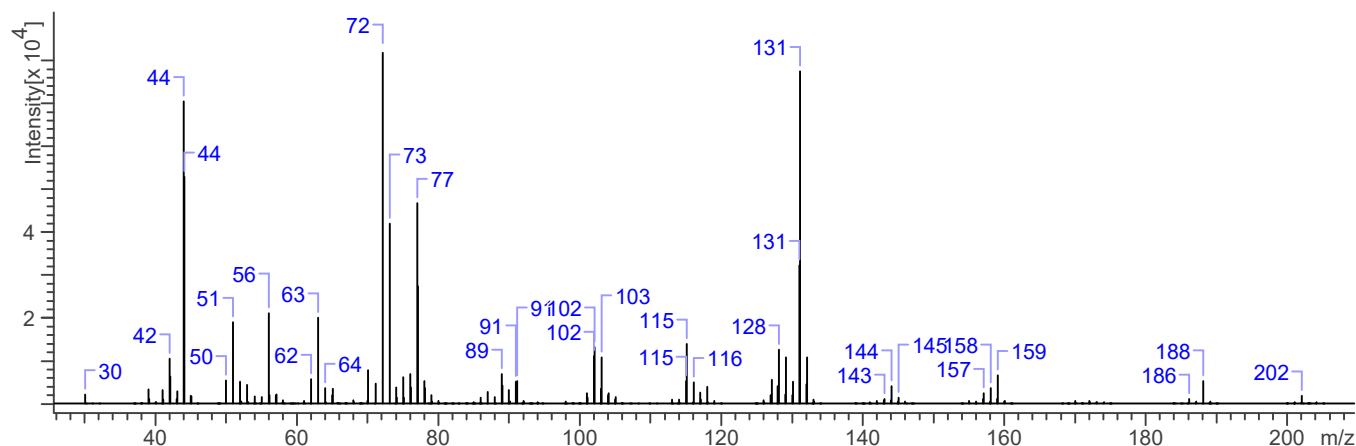
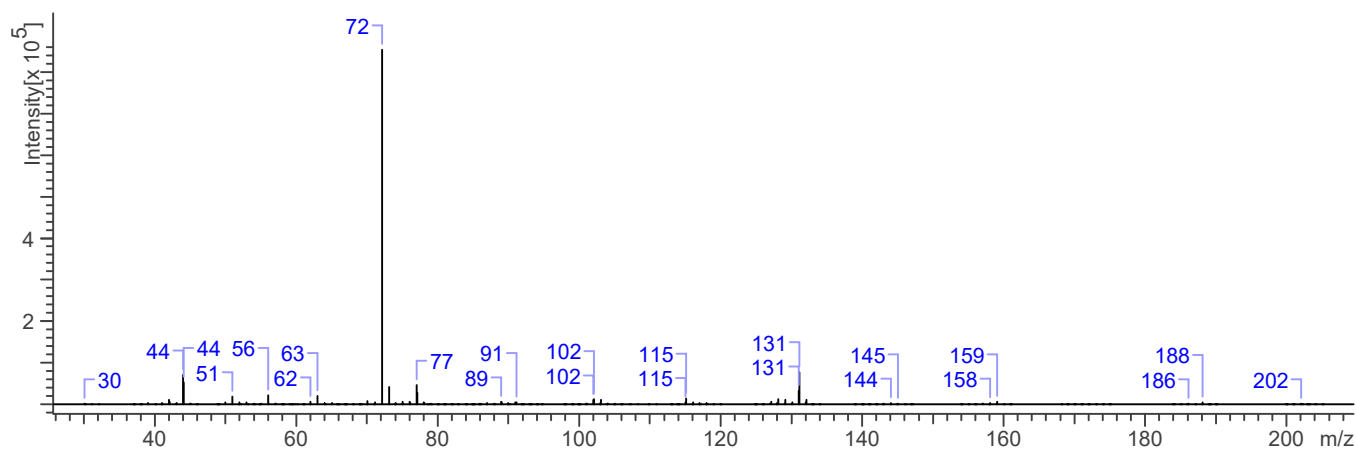


3.2 GAS CHROMATOGRAPHY/MASS SPECTROMETRY

Sample Preparation: Dilute analyte ~5 mg/mL in CHCl₃ (1M NaOH extraction)

Instrument: Agilent gas chromatograph operated in split mode with MS detector
Column: DB-1 MS (or equivalent); 30m x 0.25 mm x 0.25 μm
Carrier Gas: Helium at 1.0 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 300°C at 12 °C/min
3) Hold final temperature for 9.0 min
Injection Parameters: Split Ratio = 20:1, 1 μL injected
MS Parameters: Mass scan range: 30-550 amu Threshold: 100
Tune file: stune.u Acquisition mode: scan
Retention Time: 7.300 min

EI Mass Spectrum: 5-EAPB HCl; Lot# 0455564-11





5-EAPB

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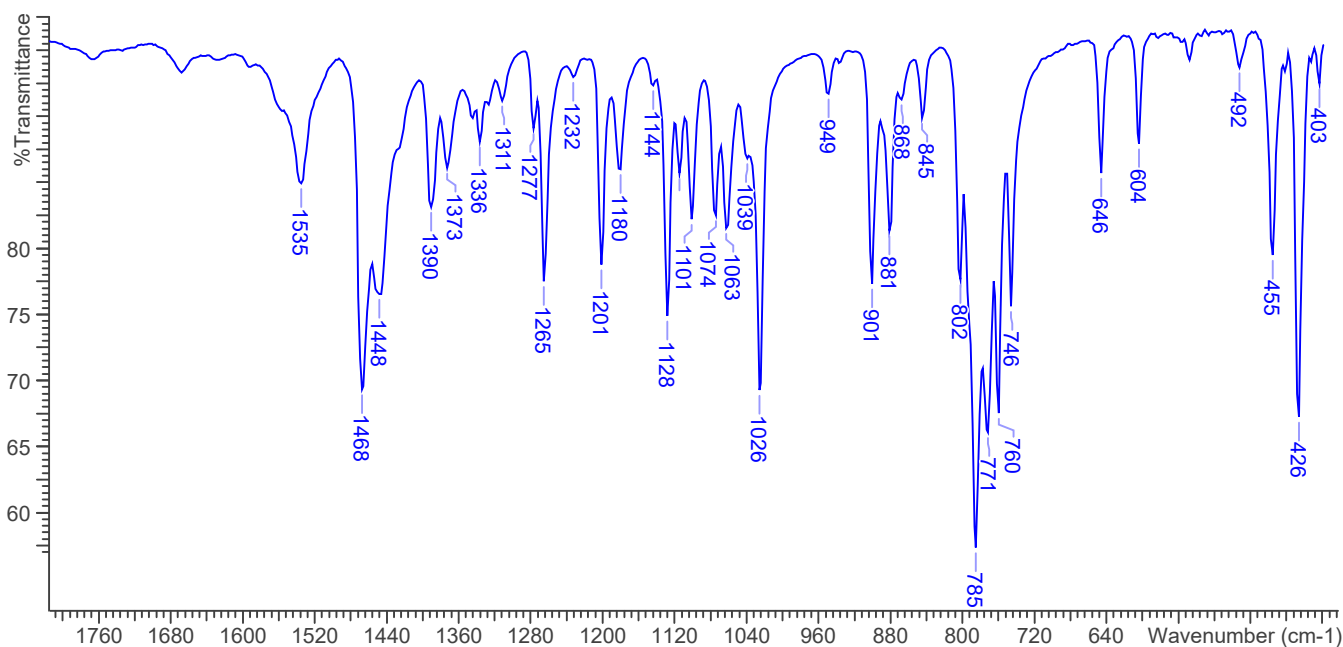
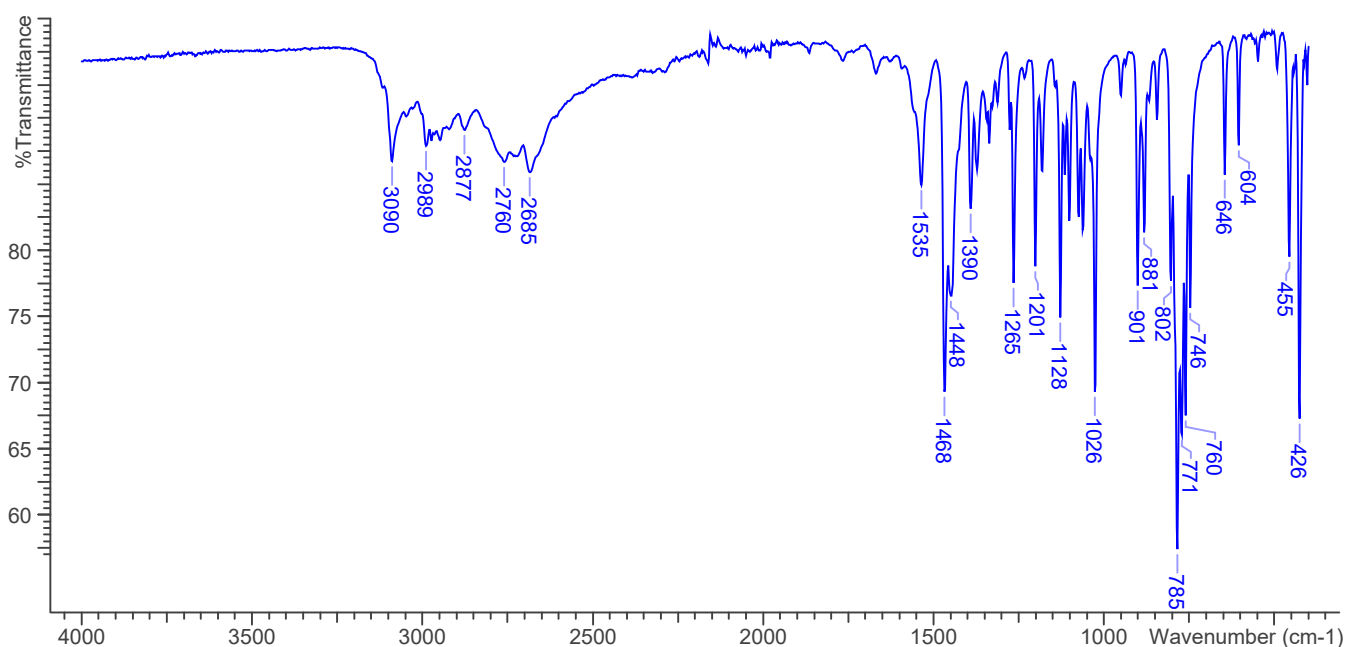


3.3 INFRARED SPECTROSCOPY (FTIR)

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): 5-EAPB HCl; Lot# 0455564-11





5-EAPB

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4. ADDITIONAL RESOURCES

[*Wikipedia*](#)

[*Forendex*](#)