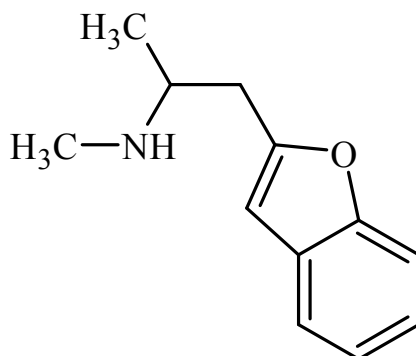




## 2-MAPB

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-2-yl)-*N*-methylpropan-2-amine

**CAS#:** 100389-74-0(HCl)

**Synonyms:** 2-(2-methylaminopropyl)benzofuran HCl

**Source:** DEA Reference Material Collection

**Appearance:** Pale yellow 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>12</sub> H <sub>15</sub> NO	189	Not Determined
HCl	C <sub>12</sub> H <sub>15</sub> NO HCl	225	131.2



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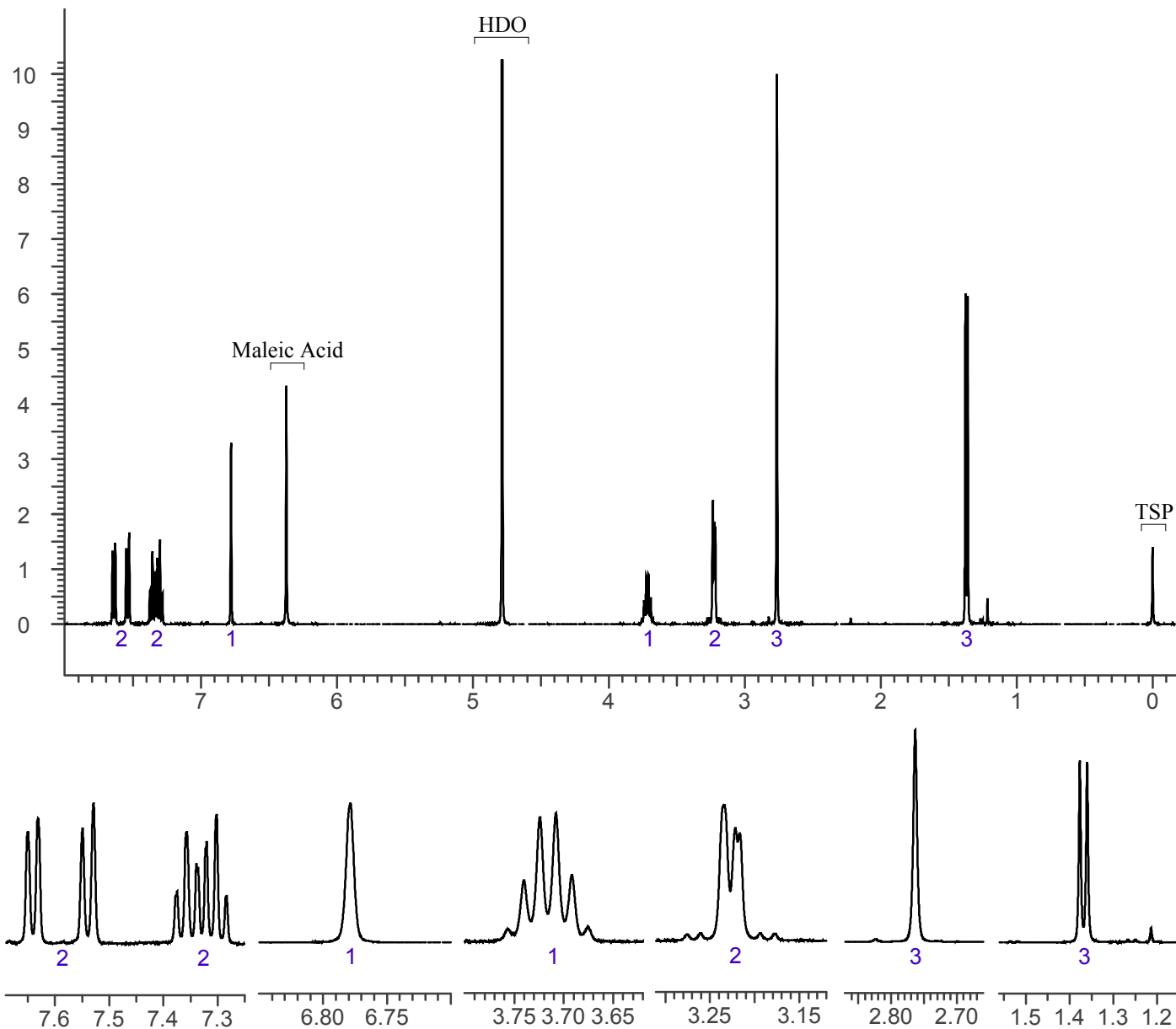


### 3. QUALITATIVE DATA

#### 3.1 NUCLEAR MAGNETIC RESONANCE

*Sample Preparation:* Dilute analyte to ~18 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 -2.9 ppm through 13.2 ppm  
Pulse angle: 90°  
Delay between pulses: 45 seconds  
<sup>1</sup>HNMR: 2-MAPB HCl; Lot RM-140723-01; D<sub>2</sub>O; 400MHz





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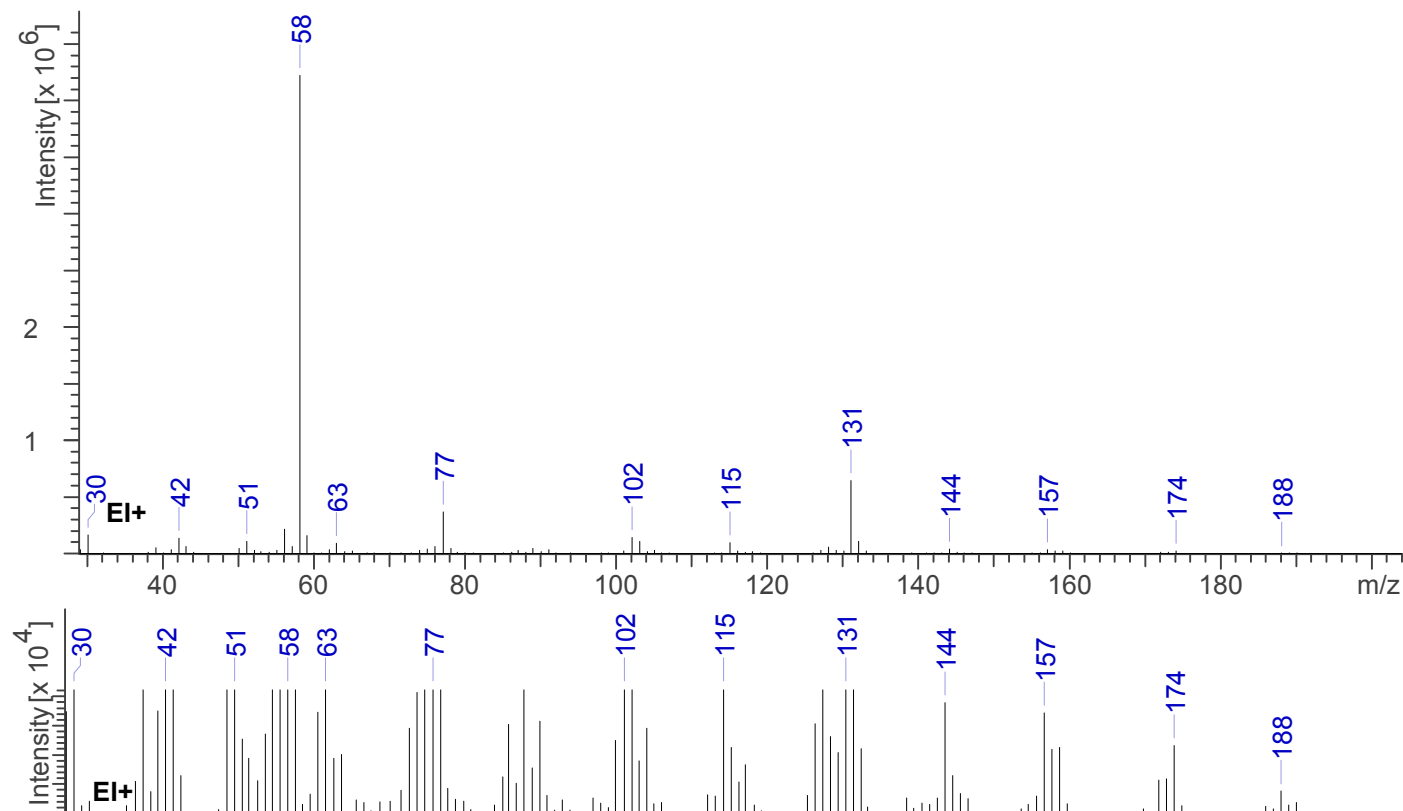
### 3.2 GAS CHROMATOGRAPHY/MASS SPECTROMETRY

*Sample Preparation:* Dilute analyte ~5 mg/mL in CHCl<sub>3</sub>:NaOH.

**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 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:** 8.204 min

EI Mass Spectrum: 2-MAPB HCl Lot# RM-140723-01





## 2-MAPB

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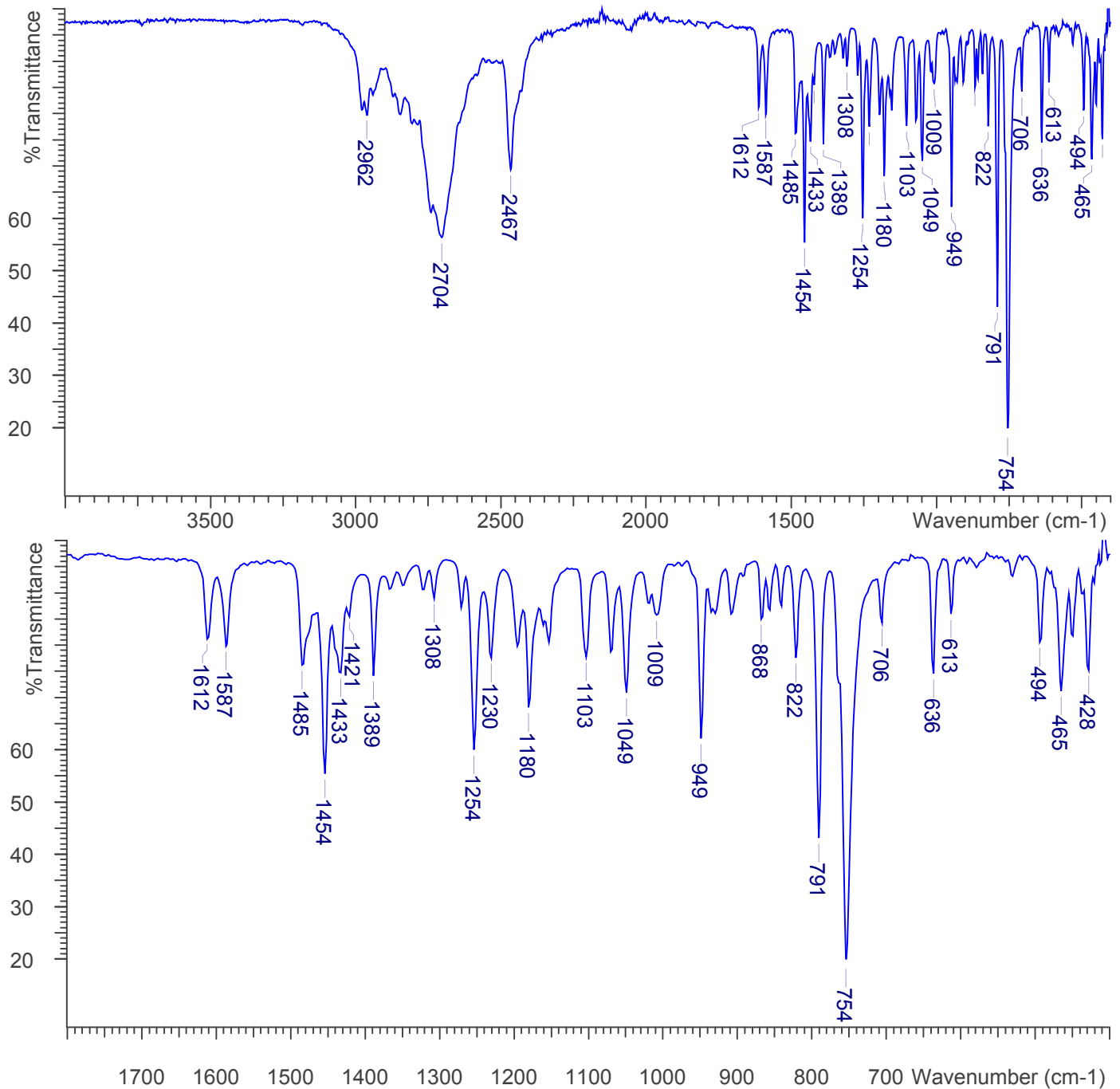


### 3.3 INFRARED SPECTROSCOPY (FTIR)

**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): 2-MAPB HCl Lot RM-140723-01





## 2-MAPB

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### 4. ADDITIONAL RESOURCES

*No Literature available as of 02/2016*