1. GENERAL INFORMATION

**IUPAC Name:** 1-(1-benzofuran-7-yl)propan-2-amine

**CAS#:** Not Available

**Synonyms:** 7-(2-aminopropyl)benzofuran

**Source:** DEA Reference Material Collection

**Appearance:** White powder (HCl)

**$UV_{\text{max}}$ (nm):** Not Determined

2. CHEMICAL AND PHYSICAL DATA

2.1 CHEMICAL DATA

<table>
<thead>
<tr>
<th>Form</th>
<th>Chemical Formula</th>
<th>Molecular Weight</th>
<th>Melting Point ($^\circ$C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>$C_{11}H_{13}NO$</td>
<td>175</td>
<td>Not Determined</td>
</tr>
<tr>
<td>HCl</td>
<td>$C_{11}H_{13}NO \cdot HCl$</td>
<td>211</td>
<td>Not Determined</td>
</tr>
</tbody>
</table>
3. QUALITATIVE DATA

3.1 NUCLEAR MAGNETIC RESONANCE

Sample Preparation: Dilute analyte to ~10 mg/mL in deuterium oxide (D$_2$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

$^1$H NMR: 7-APB HCl Lot # N17-P66B; D$_2$O; 400MHz
3.2 Gas Chromatography/Mass Spectrometry

Sample Preparation: Dilute analyte ~ 1 mg/mL base extracted into chloroform

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 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: 34-550 amu
Threshold: 90
Tune file: stune.u
Acquisition mode: scan

Retention Time: 5.994 min

EI Mass Spectrum: 7-APB HCl Lot # N17-P66B
3.3 INFRARED SPECTROSCOPY (FTIR)

Instrument: FTIR with diamond ATR attachment (3 bounce)

Scan Parameters:
- Number of scans: 32
- Number of background scans: 32
- Resolution: 4 cm$^{-1}$
- Sample gain: 8
- Aperture: 150

FTIR ATR (Diamond, 3 Bounce): 7-APB HCl Lot # N17-P66B
4. ADDITIONAL RESOURCES