1. GENERAL INFORMATION

**IUPAC Name:** 2-(2,5-dimethoxy-4-propylphenyl)-N-(2-methoxybenzyl)ethanamine

**CFR:** Not Scheduled (8/2013)

**CAS#:** Not Available

**Synonyms:** 25P-NB2OMe

**Source:** DEA Reference Material Collection

**Appearance:** White powder (HCl)

**Kovat's Index:** Pending

**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 (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>C_{21}H_{29}NO_{3}</td>
<td>343</td>
<td>Not Determined</td>
</tr>
<tr>
<td>HCl</td>
<td>C_{21}H_{29}NO_{3} \cdot HCl</td>
<td>379</td>
<td>123.3</td>
</tr>
</tbody>
</table>

3. ADDITIONAL RESOURCES

4. **QUALITATIVE DATA**

4.1 NUCLEAR MAGNETIC RESONANCE

**Method NMR CDCl₃**

*Sample Preparation:* Dilute analyte to ~10 mg/mL indeuterochloroform containing TMS for 0 ppm reference and methenamine 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

**¹H NMR:** 25P-NBOMe HCl; Lot N18-P13B; CDCl₃; 400 MHz
4.2 Gas Chromatography/Mass Spectrometry

Sample Preparation: Dilute analyte ~ 1 mg/mL in 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: 30-550 amu
Threshold: 100
Tune file: stune.u
Acquisition mode: scan

Retention Time: 16.175 min

EI Mass Spectrum: 25P-NBOMe HCl; Lot N18-P13B
4.3 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): 25P-NBOMe HCl; Lot N18-P13B