

## SUPPORTING INFORMATION

### Chromogenic Detection of Nerve Agent Mimics.

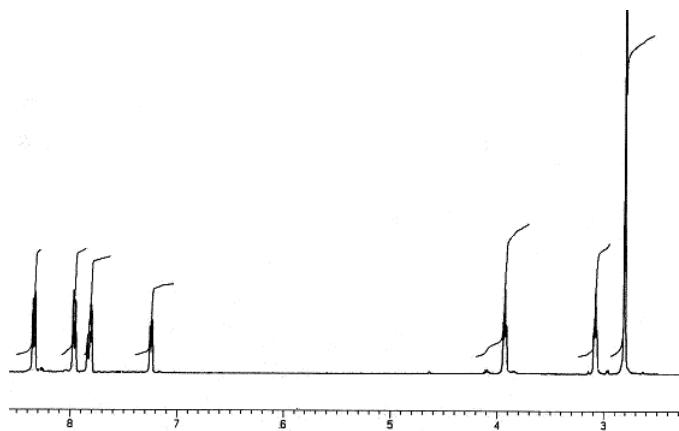
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#### 2-(2-N,N-dimethylaminophenyl)ethanol

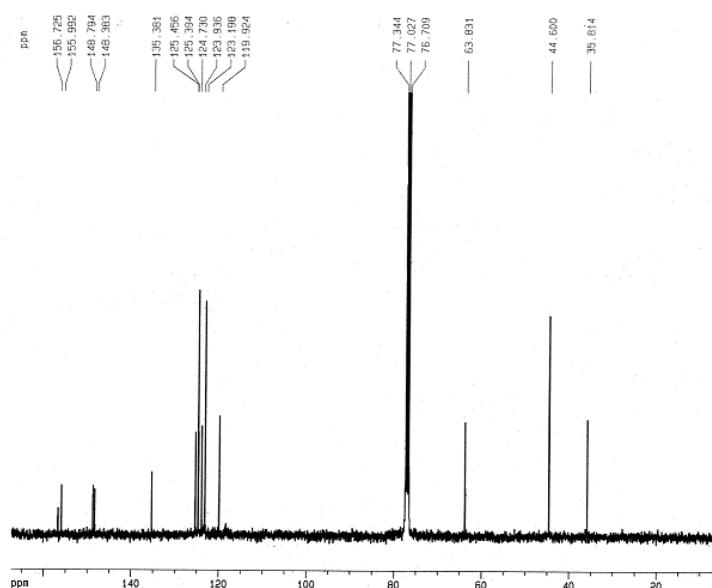
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz)  $\delta$  7.3-7.0 (m, 4H), 5.3 (br. S, 1H), 3.85 (t,  $J = 11.6$  Hz, 2H), 3.01 (t,  $J = 11.6$  Hz, 2H), 2.70 (s, 6H) ppm;  $^{13}\text{C}\{\text{H}\}$  NMR ( $\text{CDCl}_3$ , 100 MHz):  $\delta$  152.1, 136.0, 131.1, 127.6, 124.9, 120.0, 64.2, 44.9, 36.0 ppm; IR (neat) 3367, 3059, 3020, 2937, 2360, 2826, 2785, 1597, 1492, 1451, 1046, 945, 768 and 749  $\text{cm}^{-1}$ . HRMS-EI  $m/z$  165.1153 [M $^+$ ; calcd for  $\text{C}_{10}\text{H}_{15}\text{NO}$ : 165.1154].

#### Product 1

$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz)  $\delta$  8.36 (d,  $J = 9.0$  Hz, 2H), 7.98 (d,  $J = 9.0$  Hz, 2H), 7.85 (d,  $J = 8.1$  Hz, 1H), 7.81 (s, 1H), 7.26 (d,  $J = 8.1$  Hz, 1H), 3.95 (t,  $J = 5.8$  Hz, 2H), 3.10 (t,  $J = 5.8$  Hz, 2H), 2.83 (s, 6H) ppm;  $^{13}\text{C}\{\text{H}\}$  NMR ( $\text{CDCl}_3$ , 100 MHz):  $\delta$  156.7, 155.9, 148.8, 148.4, 135.4, 125.4, 124.7, 123.9, 123.2, 119.9, 63.8, 44.6, 35.8 ppm; IR (neat) 2948, 2873, 1591, 1517, 1345, 1099, 1039, 858 and 827  $\text{cm}^{-1}$ . HRMS-EI  $m/z$  314.1371 [M $^+$ ; calcd for  $\text{C}_{16}\text{H}_{18}\text{N}_4\text{O}_3$ : 314.1379].



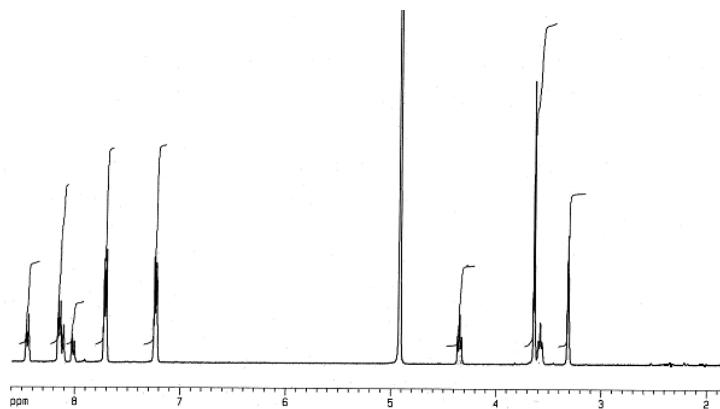
**Figure S-1.**  $^1\text{H}$  NMR spectrum of **1** in  $\text{CD}_3\text{CN}$



**Figure S-2.** <sup>13</sup>C NMR spectrum of **1** in CD<sub>3</sub>CN

## Product 2

<sup>1</sup>H NMR (CD<sub>3</sub>OD, 400 MHz) δ 8.46 (d, J = 8.8 Hz, 2H), 8.15 (m, 4H), 8.02 (d, J = 8.7 Hz, 1H), 7.72 (d, J = 7.8 Hz, 2H), 7.25 (d, J = 7.8 Hz, 2H), 4.36 (t, J = 7.2 Hz, 2H), 3.65 (s, 6H), 3.59 (t, J = 7.2 Hz, 2H) ppm; <sup>13</sup>C{<sup>1</sup>H} NMR (CDCl<sub>3</sub>, 100 MHz): δ 155.2, 153.8, 149.0, 142.1, 140.4, 128.4, 125.6, 124.9, 124.6, 123.6, 120.3, 118.2, 68.5, 54.0, 26.6, 19.9 ppm; IR (neat) 3082, 2961, 1628, 1398, 1381, 1127, 1007, 831, 701, and 664 cm<sup>-1</sup>. HRMS-EI *m/z* 297.1355 [M<sup>+</sup>; calcd for C<sub>16</sub>H<sub>17</sub>N<sub>4</sub>O<sub>2</sub>: 297.1352].



**Figure S-3.** <sup>1</sup>H NMR spectrum of **2** as its p-toluenesulfonic salt in CD<sub>3</sub>COD.