1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_9H_{17}NO_2.HCl \)

Batch Molecular Weight: 207.7

Physical Appearance: White crystalline solid

Solubility: Water to 100 mM with gentle warming, phosphate buffered saline to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: \( R_f = 0.5 \) (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point: Between 135 - 136°C

HPLC: Shows >99% purity

\(^1\)H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>52.05</td>
<td>52.07</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>8.73</td>
<td>8.9</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.74</td>
<td>6.68</td>
</tr>
<tr>
<td>Chlorine</td>
<td>17.07</td>
<td>16.91</td>
</tr>
</tbody>
</table>
Description:
Anticonvulsant with several possible mechanisms of action. Increases GABA in the brain and binds to a novel site associated with voltage-sensitive Ca$^{2+}$ channels. Prevents neuronal death and is antinociceptive and anxiolytic.

Physical and Chemical Properties:
Batch Molecular Formula: C$_8$H$_{17}$NO$_2$.HCl
Batch Molecular Weight: 207.7
Physical Appearance: White crystalline solid

Minimum Purity: ≥99%

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:
Sold for research purposes under agreement from Pfizer Inc.

References: