1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{11}\text{H}_{14}\text{N}_{2}\text{O}\cdot\text{HCl}\cdot\text{H}_{2}\text{O} \)

Batch Molecular Weight: 244.73

Physical Appearance: Beige solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 100% purity

\(^1\text{H NMR:} \) Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Component</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>53.99</td>
<td>54.11</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7</td>
<td>6.66</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>11.45</td>
<td>11.44</td>
</tr>
</tbody>
</table>
**Product Information**

**Product Name:** 2-Methyl-5-hydroxytryptamine hydrochloride  
**Catalog No.:** 0558  
**Batch No.:** 5  
**CAS Number:** 845861-49-6

**Description:**
5-HT₃ agonist (Kᵢ = 1200 nM) and potent 5-HT₆ ligand (Kᵢ = 46 nM).

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₁₁H₁₃N₂O.HCl.H₂O
- **Batch Molecular Weight:** 244.73
- **Physical Appearance:** Beige solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**
- water to 100 mM
- CAUTION - This product is unstable in solution, therefore we recommend that solutions are made up and used on the day of preparation.

**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.

**Other Information:**

**INFORMATION FOR CUSTOMERS IN THE UK ONLY**
This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

**References:**