1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: $\text{C}_{11}\text{H}_{19}\text{IN}_{2}\text{O}$
   Batch Molecular Weight: 322.19
   Physical Appearance: Pale yellow solid
   Solubility: water to 100 mM
   Storage: Desiccate at -20°C
   Batch Molecular Structure:

   ![Molecular Structure](image)

2. ANALYTICAL DATA

   HPLC: Shows 100% purity
   $^1$H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>41.01</td>
<td>5.94</td>
<td>8.69</td>
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<tr>
<td>Found</td>
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<td>5.93</td>
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</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Oxotremorine M
Catalog No.: 1067
Batch No.: 4

CAS Number: 3854-04-4
IUPAC Name: N,N,N-Trimethyl-4-(2-oxo-1-pyrolidinyl)-2-butyln-1-ammonium iodide

Description:
Muscarinic receptor agonist. Also directly potentiates NMDA-mediated ion currents.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₁H₁₉IN₂O
Batch Molecular Weight: 322.19
Physical Appearance: Pale yellow solid
Minimum Purity: >98%

Batch Molecular Structure:

Storage: Desiccate at -20°C

Solubility & Usage Info:
water to 100 mM

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.

References: