1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{11}H_{19}I_{2}N_{2}O \)
Batch Molecular Weight: 322.19
Physical Appearance: Beige solid
Solubility: Water to 100 mM
Storage: Desiccate at -20°C

2. ANALYTICAL DATA

HPLC: Shows 99.8% 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>
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<tr>
<td>H</td>
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</tr>
<tr>
<td>N</td>
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<td>8.7</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Oxotremorine M
Catalog No.: 1067
Batch No.: 5
CAS Number: 3854-04-4
IUPAC Name: \(N,N,N\)-Trimethyl-4-(2-oxo-1-pyrolidinyl)-2-butyn-1-ammonium iodide

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

Physical and Chemical Properties:
Batch Molecular Formula: \(C_{11}H_{19}IIN_2O\)
Batch Molecular Weight: 322.19
Physical Appearance: Beige solid
Minimum Purity: >98%

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:
