1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $\text{C}_{14}\text{H}_{22}\text{N}_2\text{O}$
- **Batch Molecular Weight:** 234.34
- **Physical Appearance:** White solid
- **Solubility:** ethanol to 100 mM, DMSO to 100 mM
- **Storage:** Store at RT
- **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>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
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<tr>
<td>H</td>
<td>9.46</td>
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</tr>
<tr>
<td>N</td>
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</table>
**Product Name:** Lidocaine  
**Catalog No.:** 3057  
**Batch No.:** 2  
**EC Number:** 205-302-8  
**CAS Number:** 137-58-6  
**IUPAC Name:** 2-Diethylamino-N-(2,6-dimethylphenyl)acetamide

**Description:**
Anesthetic and class Ib antiarrhythmic agent. Blocks voltage-gated sodium channels in the inactivated state.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₁₄H₁₂N₂O
- **Batch Molecular Weight:** 234.34
- **Physical Appearance:** White solid
- **Minimum Purity:** ≥99%

**Storage:** Store at RT

**Solubility & Usage Info:**
- Ethanol to 100 mM
- DMSO 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:**