1. PHYSICAL AND CHEMICAL PROPERTIES

   **Batch Molecular Formula:** C_7_H_5_NO_4
   **Batch Molecular Weight:** 167.12
   **Physical Appearance:** White solid
   **Solubility:** 1eq. NaOH to 50 mM
   **Storage:** Store at RT
   **Batch Molecular Structure:**

2. ANALYTICAL DATA

   **Melting Point:** Between 240 - 242°C
   **^1H 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>50.3</td>
<td>3.01</td>
<td>8.38</td>
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<tr>
<td>Found</td>
<td>50.56</td>
<td>2.94</td>
<td>8.31</td>
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</tbody>
</table>
**Product Name:** Quinolinic acid  
**CAS Number:** 89-00-9  
**IUPAC Name:** Pyridine-2,3-dicarboxylic acid

**Description:**
Endogenous NMDA agonist and transmitter candidate. May distinguish between NMDA receptor subtypes.

**Physical and Chemical Properties:**
- Batch Molecular Formula: C₇H₆NO₄
- Batch Molecular Weight: 167.12
- Physical Appearance: White solid

**Storage:** Store at RT

**Solubility & Usage Info:**
1eq. NaOH to 50 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:**