1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_5\text{H}_9\text{NO}_2.0.3\text{H}_2\text{O} \)
Batch Molecular Weight: 121.14
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.2 \) (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: At 262°C
\(^1\text{H NMR:}\) 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>49.57</td>
<td>8.04</td>
<td>11.56</td>
</tr>
<tr>
<td>Found</td>
<td>49.58</td>
<td>7.67</td>
<td>11.87</td>
</tr>
</tbody>
</table>
**Product Name:** ACBC  
**CAS Number:** 22264-50-2  
**IUPAC Name:** 1-Aminocyclobutane-1-carboxylic acid

**Storage:** Store at RT

**Description:**
NMDA receptor partial agonist, acting at the glycine site of GluN1 (formally NR1). Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions.

**Physical and Chemical Properties:**
Batch Molecular Formula: C₇H₆NO₂·0.3H₂O  
Batch Molecular Weight: 121.14  
Physical Appearance: White solid

**Batch Molecular Structure:**

![Chemical Structure Image]

**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:**
