### 1. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Molecular Formula:</td>
<td>C16H13ClN2O</td>
</tr>
<tr>
<td>Batch Molecular Weight:</td>
<td>284.74</td>
</tr>
<tr>
<td>Physical Appearance:</td>
<td>White solid</td>
</tr>
<tr>
<td>Solubility:</td>
<td>DMSO to 100 mM, ethanol to 25 mM</td>
</tr>
<tr>
<td>Storage:</td>
<td>Store at RT</td>
</tr>
</tbody>
</table>

### 2. ANALYTICAL DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPLC</td>
<td>Shows 100% purity</td>
</tr>
<tr>
<td>Mass Spectrum</td>
<td>Consistent with structure</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** Diazepam  
**Catalog No.:** 2805  
**Batch No.:** 1  
**EC Number:** 207-122-5

**IUPAC Name:** 7-Chloro-1-methyl-5-phenyl-3H-1,4-benzodiazepin-2(1H)-one

**Description:**
Ligand at the GABA<sub>A</sub> receptor benzodiazepine modulatory site. Anxiolytic, anticonvulsant and sedative/hypnotic agent.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C<sub>16</sub>H<sub>13</sub>ClN<sub>2</sub>O
- **Batch Molecular Weight:** 284.74
- **Physical Appearance:** White solid
- **Minimum Purity:** >98%

**Storage:** Store at RT

**Solubility & Usage Info:**
- DMSO to 100 mM
- Ethanol to 25 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.

**Other Information:**

**INFORMATION FOR CUSTOMERS IN THE UK ONLY**
This product is a Schedule 4.1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

**INFORMATION FOR CUSTOMERS IN THE USA ONLY**
This product is a Schedule IV DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

**INFORMATION FOR CUSTOMERS IN CANADA ONLY**
This product is a Schedule IV CDSA controlled substance and customers in Canada require an import permit to purchase this material.

**References:**