1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $C_{15}H_{14}N_{2}O_{2}$
- **Batch Molecular Weight:** 254.28
- **Physical Appearance:** White solid
- **Solubility:**
  - DMSO to 100 mM
  - Ethanol to 50 mM
- **Storage:** Store at RT
- **Batch Molecular Structure:**

![Molecular Structure]

2. ANALYTICAL DATA

- **HPLC:** Shows 100% purity
- **$^1$H 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>70.85</td>
<td>5.55</td>
<td>11.02</td>
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<tr>
<td>Found</td>
<td>70.46</td>
<td>5.57</td>
<td>10.97</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Licarbazepine
CAS Number: 29331-92-8
IUPAC Name: 10,11-Dihydro-10-hydroxy-5H-dibenz[Z][b,f]azepin-5-carboxamide

Description:
Active metabolite of oxcarbazepine (Cat. No. 3864). Produces dose-dependent inhibition of glutamatergic excitatory postsynaptic potentials (EPSPs). Displays anticonvulsant activity; exhibits minor potentiation of GABA_\alpha receptor currents.

Physical and Chemical Properties:
Batch Molecular Formula: C_{19}H_{14}N_{2}O_{2}
Batch Molecular Weight: 254.28
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:
DMSO to 100 mM
ethanol 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: