Product Name: Lamotrigine isethionate
CAS Number: 113170-86-8
IUPAC Name: 6-(2,3-Dichlorophenyl)-1,2,4-triazine-3,5-diamine isethionate

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_9\text{H}_7\text{Cl}_2\text{N}_5\cdot\text{C}_2\text{H}_6\text{O}_4\text{S} \)
   Batch Molecular Weight: 382.22
   Physical Appearance: White solid
   Solubility: water to 100 mM with gentle warming
             DMSO to 100 mM
   Storage: Desiccate at RT
   Batch Molecular Structure:

   ![Molecular Structure Image]

2. ANALYTICAL DATA

   HPLC: Shows 99.9% purity
   \(^1\)H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
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<tbody>
<tr>
<td>Carbon</td>
<td>34.57</td>
<td>34.39</td>
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<tr>
<td>Hydrogen</td>
<td>3.43</td>
<td>3.45</td>
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<tr>
<td>Nitrogen</td>
<td>18.32</td>
<td>18.11</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Lamotrigine isethionate
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IUPAC Name: 6-(2,3-Dichlorophenyl)-1,2,4-triazine-3,5-diamine isethionate

Description:
Water-soluble salt of lamotrigine (Cat. No. 1611). Displays anticonvulsant effects and inhibits glutamate release, possibly through inhibition of Na⁺, K⁺ and Ca²⁺ currents.

Physical and Chemical Properties:
Batch Molecular Formula: C₃₇H₂₇Cl₂N₆C₂H₃O₂S
Batch Molecular Weight: 382.22
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Desiccate at RT

Solubility & Usage Info:
- Water to 100 mM with gentle warming
- 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: