**Product Name:** Bucindolol  
**CAS Number:** 71119-11-4  
**IUPAC Name:** 2-[2-Hydroxy-3-[[2-(1H-indol-3-yl)-1,1-dimethylethyl]amino]propoxy]benzonitrile

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Molecular Formula:</td>
<td>C22H25N3O2</td>
</tr>
<tr>
<td>Batch Molecular Weight:</td>
<td>363.45</td>
</tr>
<tr>
<td>Physical Appearance:</td>
<td>White solid</td>
</tr>
<tr>
<td>Solubility:</td>
<td>DMSO to 100 mM ethanol to 50 mM</td>
</tr>
<tr>
<td>Storage:</td>
<td>Store at +4°C</td>
</tr>
</tbody>
</table>

### 2. ANALYTICAL DATA

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLC:</td>
<td>R&lt;sub&gt;t&lt;/sub&gt; = 0.2 (Dichloromethane:MeOH [9:1])</td>
</tr>
<tr>
<td>HPLC:</td>
<td>Shows &gt;99.49% purity</td>
</tr>
<tr>
<td>&lt;sup&gt;1&lt;/sup&gt;H NMR:</td>
<td>Consistent with structure</td>
</tr>
<tr>
<td>Mass Spectrum:</td>
<td>Consistent with structure</td>
</tr>
<tr>
<td>Microanalysis:</td>
<td>Carbon Hydrogen Nitrogen</td>
</tr>
<tr>
<td></td>
<td>Theoretical 72.7 6.93 11.56</td>
</tr>
<tr>
<td></td>
<td>Found 72.27 6.97 11.38</td>
</tr>
</tbody>
</table>

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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:
Non-selective β-adrenoceptor antagonist with additional α₁-adrenoceptor blocking activity. Kᵢ values are 1.61, 1.20 and 68.9 nM for β₁-, β₂- and α₁-adrenoceptors respectively. Also acts as a weak 5-HT₂/₃ antagonist. Displays vasodilatory and antihypertensive actions.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₂H₂₅N₃O₂
Batch Molecular Weight: 363.45
Physical Appearance: White solid
Minimum Purity: >99%

References:

Storage: Store at +4°C
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.