Product Name: Minoxidil
CAS Number: 38304-91-5
IUPAC Name: 6-(1-Piperidinyl)-2,4-pyrimidinediamine 3-oxide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_9\text{H}_{15}\text{N}_5\text{O} \)
Batch Molecular Weight: 209.25
Physical Appearance: White solid
Solubility: ethanol to 25 mM
DMSO to 25 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
\(^1\text{H NMR:}\) Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
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<td>Theoretical</td>
<td>51.66</td>
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</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** Minoxidil  
**Catalog No.:** 0583  
**Batch No.:** 3  
**EC Number:** 253-874-2

**Description:**
Antihypertensive. Antialopecia agent. $K_{ATP}$ channel activator.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C$_9$H$_{17}$N$_3$O  
- **Batch Molecular Weight:** 209.25  
- **Physical Appearance:** White solid  

**Minimum Purity:** >99%

**Solubility & Usage Info:**
- Ethanol to 25 mM
- DMSO to 25 mM with gentle warming

**Storage:** Store at RT

**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:**
- Merck Index 12 6290.

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