Product Name: Propranolol hydrochloride
Catalog No.: 0624
Batch No.: 4
CAS Number: 318-98-9
EC Number: 222-501-5
IUPAC Name: (RS)-1-[(1-Methylethyl)amino]-3-(1-naphthalenyl oxy)-2-propanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C₁₆H₂₁NO₂·HCl
- **Batch Molecular Weight:** 295.81
- **Physical Appearance:** White solid
- **Solubility:** water to 100 mM
- **Storage:** Store at RT
- **Batch Molecular Structure:**

![Structure Image]

2. ANALYTICAL DATA

- **TLC:** R₁ = 0.74 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
- **Melting Point:** Between 166 - 167°C
- **¹H NMR:** Consistent with structure
- **Microanalysis:**
  
<table>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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**IUPAC Name:** (RS)-1-[(1-Methylethyl)amino]-3-(1-naphthalenyloxy)-2-propanol hydrochloride

**Description:**  
β-adrenergic antagonist. R-enantiomer, S-enantiomer and Glycol Metabolite also available.

**Physical and Chemical Properties:**  
- **Batch Molecular Formula:** C₁₈H₁₉NO₂.HCl  
- **Batch Molecular Weight:** 295.81  
- **Physical Appearance:** White solid

**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**  
Water 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:**


Merck Index 12 8025.