

Certificate of Analysis

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Product Name: (RS)-Atenolol

Catalog No.: 0387

Batch No.: 5

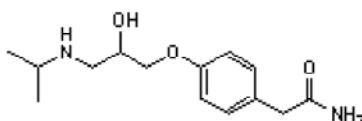
CAS Number: 29122-68-7

EC Number: 249-451-7

IUPAC Name: (RS)-4-[2-Hydroxy-3-[(1-methylethyl)amino]propoxy]benzeneacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₂₂N₂O₃
Batch Molecular Weight: 266.34
Physical Appearance: White solid
Solubility: water to 25 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.64 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: At 163°C
¹H NMR: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen			
Theoretical	63.13	8.33	10.52	0 0 0
Found	62.78	8.36	10.36	0 0 0

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

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IUPAC Name: (RS)-4-[2-Hydroxy-3-[(1-methylethyl)amino]propoxy]benzeneacetamide

Description:

Cardioselective β -adrenergic blocker. Antihypertensive, antianginal and antiarrhythmic. S-enantiomer also available.

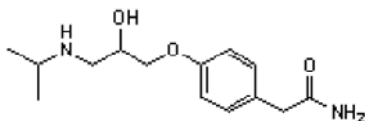
Physical and Chemical Properties:

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Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 25 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:

Kahonen *et al* (1994) Enhancement of arterial relaxation by long-term atenolol treatment in spontaneously hypertensive rats. *Br.J.Pharmacol.* **112** 925. PMID: 7921622.

Merck Index **12** 892.

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