

Product Name: Cimeterol

Catalog No.: 043

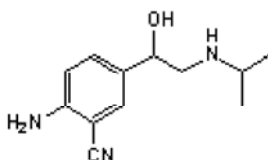
Batch No.: 2

CAS Number: 54239-37-1

IUPAC Name: 2-Amino-5-[1-hydroxy-2-[(1-methylethyl)amino]ethyl]benzonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₇N₃O
Batch Molecular Weight: 219.29
Physical Appearance: White crystalline solid
Solubility: ethanol to 100 mM
 DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Dichloromethane:2N Ammonia in IMS [85:15])
Melting Point: Between 159 - 161°C
HPLC: Shows 99.0% purity
¹H NMR: Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen		
	Theoretical	65.73	7.81
Found	65.36	7.79	19.13

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

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Catalog No.: 043

Batch No.: 2

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IUPAC Name: 2-Amino-5-[1-hydroxy-2-[(1-methylethyl)amino]ethyl]benzonitrile

Description:

β-Adrenergic agonist.

Physical and Chemical Properties:

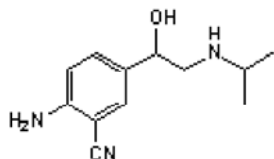
Batch Molecular Formula: C₁₂H₁₇N₃O

Batch Molecular Weight: 219.29

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 100 mM

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:

Strosberg and Pietri-Rouel (1996) Function and regulation of the β₃-adrenoceptor. *TiPS* **17** 373. PMID: 8979772.

Lafontan et al (1988) Mechanisms of actions of β-adrenergic agonists - lipomobilization and anabolism. *Reprod.Nutr.Develop.* **28** 61.

Engelhardt (1984) Structure activity relationships in further series of amino-halogen substituted phenyl-aminoethanols. *Arzneimittelforschung* **11A** 1625. PMID: 6152155.

Merck Index **12** 2336.

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