

Certificate of Analysis

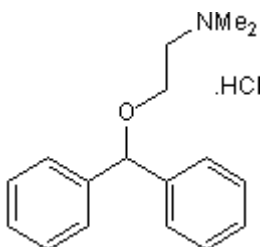
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Product Name: Diphenhydramine hydrochloride
CAS Number: 147-24-0
IUPAC Name: 2-Diphenylmethoxy-*N,N*-dimethylethanamine hydrochloride

Catalog No.: 3072
Batch No.: 1
EC Number: 205-687-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₁NO.HCl
Batch Molecular Weight: 291.82
Physical Appearance: crystalline solid
Solubility: water to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 166 - 169°C
HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

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

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IUPAC Name: 2-Diphenylmethoxy-*N,N*-dimethylethanamine hydrochloride

Description:

H₁ receptor antagonist. Antihistamine.

Physical and Chemical Properties:

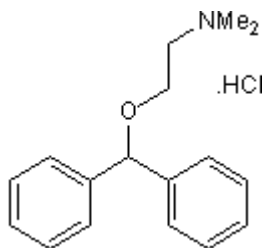
Batch Molecular Formula: C₁₇H₂₁NO.HCl

Batch Molecular Weight: 291.82

Physical Appearance: crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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:

Khalia et al (1999) Block of potassium currents in guinea pig ventricular myocytes and lengthening of cardiac repolarization in man by the histamine H₁ receptor antagonist diphenhydramide. *J.Pharmacol.Exp.Ther.* **288** 858. PMID: 9918600.

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