



# **Certificate of Analysis**

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Product Name: Diphenhydramine hydrochloride Catalog No.: 3072 Batch No.: 1

CAS Number: 147-24-0 EC Number: 205-687-2

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

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C<sub>17</sub>H<sub>21</sub>NO.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:

HPLC:

Shows >99.9% purity

HNMR:

Consistent with structure

Mass Spectrum:

Consistent with structure



# **Product Information**

Print Date: Apr 28th 2015

Batch No.: 1

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Catalog No.: 3072 CAS Number: 147-24-0 EC Number: 205-687-2

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

**Description:** 

H₁ receptor antagonist. Antihistamine.

**Physical and Chemical Properties:** 

Batch Molecular Formula: C<sub>17</sub>H<sub>21</sub>NO.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.

