

## About Benadryl

*Benadryl is a leading brand allergy medicine who's products contain Diphenhydramine. Each adult dose contains the recommended 25 mg dose while the children's products contain the 12.5 mg dose.*



**KJ Edwards**



**Eric Harmatz**



**Diphenhydramine Research  
Institute**

123 Diphen Way  
Suite 52  
San Diego, California 92121  
Info Line: 858.853.1212

Diphenhydramine  
Research Institute

**Diphenhydramine Research  
Institute of San Diego**



## About Diphenhydramine

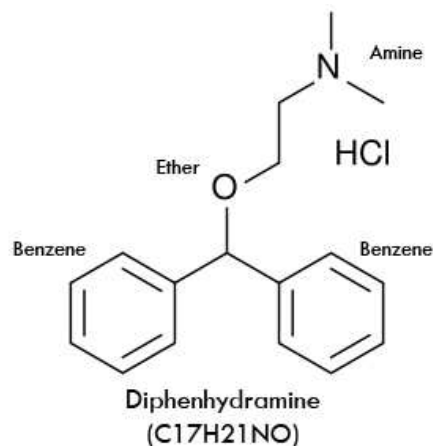
### IUPAC Name:

2-benzhydryloxy-N,N-dimethyl-ethamine

**Common Name:** Diphenhydramine

### Common Brand Names:

Benadryl, Dimedrol, Nytol



**Molar Mass:** 255.348g/mol

**Melting Point:** 166-169 Celsius

(It is important to know this for storing information)

**Appearance:** White Crystalline Powder

**Synthesis:** "Diphenhydramine is synthesized by the esterification of 2-dimethylamioethanol with Benzhydrylbromide."

**Production:** Production per year

## Biochemistry Behind Diphenhydramine

**Neural Effects:** Diphenhydramine works by blocking the Histamine 1 receptor that causes muscle contractions to help induce drowsiness.

**Effects on the Body:** Diphenhydramine causes drowsiness to help people sleep. Also provides allergy relief, as well as relief for the common cold including soar throat, itchy eyes, runny nose, as well as other symptoms of the common cold.

**Drug Type:** Antihistamine, which is a drug that blocks Histamine receptors, which trigger allergic responses.

**Long term Effects:** Benadryl is a relatively safe drug however you can become dependent on it.



**Contraindications:** Should not be used in infants or buy nursing mothers because of an infant's high sensitivity to antihistamines.

## The Humanities Of Diphenhydramine

**Reasons for Use:** Allergic reactions, common cold (provides relief)

**Legal Issues:** Legal as an Over-The-Counter drug.

**Responsible Use:** Use only as directed. OTC 1-2 25mg tablets for adults, 1 25mg tablet for kids.

### Global Trade:

Diphenhydramine is sold overseas under the brand name "Dimedrol". Dimedrol is manufactured in Europe for sale overseas. Other brand names that one may recognize internationally include:

\* AllerMax® \* Benadryl® \* Compoz®

\* Diphen® \* Diphenhist® \* Hydramine®

### Abuse:

Diphenhydramine can be abused by taking more than the recommended amount, usaly 225-450mg. It may cause hallucinations and "dreaming while your awake". Always take the amount pre-scribed by your doctor or recom-mended on the labeling of over the counter drugs.

**WARNING** Do not use with other products containing diphenhydramine or take while under the influence of alcohol.

### Sources:

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PTCL Safety, "MSDS Data for Diphenhy-dramine," The Physical and Theoretical Chemis-try Laboratory of Oxford University , January 3, 2007, [http://msds.chem.ox.ac.uk/DI/diphenhydramine\\_hydrochloride.html](http://msds.chem.ox.ac.uk/DI/diphenhydramine_hydrochloride.html) (accessed May 26, 2008).

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