



STATUS DECISION OF CONTROLLED AND NON-CONTROLLED SUBSTANCE(S)

Substance: N,N-Dimethylphenylethylamine

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

- Controlled [ ]
Not Controlled [x]

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

- The substance is not similar to any of the substances listed in the Schedules to the CDSA.

Prepared by: Evelyn Soo Date: 27 July 2010

Verified by: Marianne Tang Date:

Approved by: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES Date:

This status was requested by: DAS

## Drug Status Report

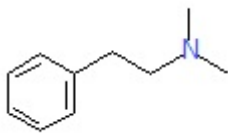
**Drug:** N,N-Dimethylphenylethylamine

**Drug Name Status:** N,N-Dimethylphenylethylamine is the common name.

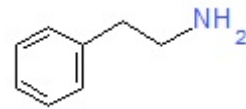
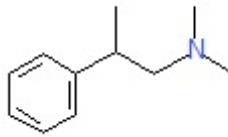
**Chemical Name:** N,N-dimethylbenzeneethanamine

**Other Names:** Dimethylaminoethylbenzene; N,N-Dimethyl-PEA, N,N-Dimethyl-2-phenylethylamine; N,N-DMPEA; AF2975

**Chemical structure:**



**N-methyl-β-methylphenethylamine**



**phenethylamine**

**Molecular Formula:** C<sub>10</sub>H<sub>15</sub>N

**Pharmacological class / Application:** σ-receptor agonist

**CAS-RN:** 1126-71-2

**International status:**

**US:** The substance is not listed specifically in the CSA and is not mentioned anywhere on the DEA website.

**United Nations:** The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

**Canadian Status:** N,N-Dimethylphenylethylamine is not listed specifically in the CDSA and is not structurally similar to any of the substances listed in the Schedules to the CDSA. The substance has been shown *in vivo* to be a σ-receptor agonist and to stimulate the release of tear proteins<sup>1,2</sup>. The substance has also been claimed to be a mood lifter in supplements marketed for weight loss<sup>3</sup>.

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<sup>1</sup>Schoenwald, RD. *et al.* (1995) The effects of sigma ligands on protein release from lacrimal acinar cells: a potential agonist/antagonist assay, *Life Sci.* **56**:1275-1285.

<sup>2</sup>Schoenwald, RD. *et al.* (1998) Uptake of N,N-dimethyl-2-phenylethylene HCl into acini cells removed from rabbit lacrimal glands, *J. Ocular Pharmacol.* **14**:253-262

<sup>3</sup><http://www.godietpills.com/lipo-6x-advanced-formula/>

Earlier reviews of two structurally related compounds phenethylamine and N-methyl- $\beta$ -methyphenethylamine determined that these were not controlled substances under the CDSA.

**Recommendation:** N,N-Dimethylphenylethylamine is not included in the schedules to the CDSA and is not considered a controlled substance.

**Date:** 27<sup>th</sup> July 2010