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 ✔

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: ____________________________ Date: 27 July 2010

Evelyn Soo

Verified by: ____________________________ Date: ________

Marianne Tang

Approved by: ____________________________ Date: ________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

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:

\[
\text{N-methyl-}\beta\text{-methylphenethylamine} \quad \text{phenethylamine}
\]

Molecular Formula: \(C_{10}H_{15}N\)

Pharmacological class / Application: \(\sigma\)-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 \textit{in vivo} to be a \(\sigma\)-receptor agonist and to stimulate the release of tear proteins\textsuperscript{1,2}. The substance has also been claimed to be a mood lifter in supplements marketed for weight loss\textsuperscript{3}.


\textsuperscript{3}http://www.godietpills.com/lipo-6x-advanced-formula/
Earlier reviews of two structurally related compounds phenethyamine and N-methyl-β-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:** 27th July 2010