



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

Substance: N-Benzyl-2-phenethylamine

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

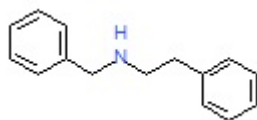
Drug: N-benzyl-2-phenylethylamine

Drug Name Status: N-benzylphenylethylamine is the common name.

Chemical Name: N-benzyl-2-phenylethylamine

Other Names: N-benzyl-PEA; benethamine

Chemical structure:



Molecular Formula: C₁₅H₁₇N

Pharmacological class / Application: fine chemical

CAS-RN: 3647-71-0

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-benzyl-2-phenylethylamine is a chemical reagent used in organic synthesis, for example as a Lewis base in organometallic synthesis reactions¹. The substance has been reported in the scientific literature to be an inhibitor of the phenylalanyl-tRNA synthetase (PRS) with respect to L-phenylalanine². The substance is not currently listed in the CDSA and is not structurally similar to any substances listed in the Schedules to the CDSA.

Recommendation: N-benzyl-2-phenylethylamine is not included in the schedules

¹Kratzer R et al. (2005) Catalyst system and the use thereof, US Patent 6953829

²Anderson Jr, RT and Santi, DV (1976) Phenylalanyl transfer ribonucleic acid synthetase from Escherichia coli B. Potent inhibition by analogues of N-benzyl-2-phenylethylamine, J Med Chem. **19**:1270-1275.

to the CDSA and is not considered a controlled substance.

Date: 27th July 2010