Health Canada Santé Canada

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

Substance: I - N-2-Hydroxyethyl norephedrine
II - rac-syn-N,N-Diethyl norephedrine

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 substances are derivatives of norephedrine and are not captured under item 10 of Part 1 of Schedule VI to the CDSA.

Prepared by: _____ Date: June 15, 2011
Zack Li

Verified by: _____ Date: _____
Mark Kozlowski

Approved by: _____ Date: _____
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: "third party information removed as per agreement with applicant"

Drug Status Report

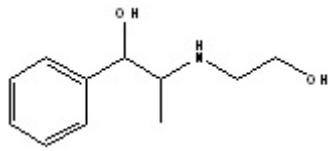
Drug: I - N-2-Hydroxyethyl norephedrine
II - rac-syn-N,N-Diethyl norephedrine

Drug Name Status: I - N-2-Hydroxyethyl norephedrine
II - rac-syn-N,N-Diethyl norephedrine are the common names.

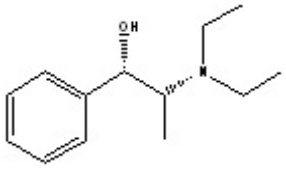
Chemical Name: I - alpha-(1-(2-Hydroxyethyl)amino)ethyl)benzenemethanol
II - (R*,R*)-alpha-(1-(Diethylamino)ethyl)benzenemethanol

Other Names: I - alpha-(1-(2-Hydroxyethyl)amino)ethyl)benzyl alcohol
II - threo-1-Phenyl-2-dimethylamino-1-propanol

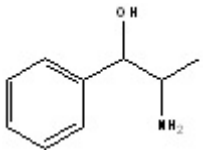
Chemical structure:



I



II



Norephedrine

Molecular Formula: I - $C_{11}H_{17}NO2_2$

CAS-RN: I - 63991-20-8; II - 34154-81-9

Pharmacological class / Application: Pharmaceutical-related substances

International status:

US: N-2-Hydroxyethyl norephedrine and rac-syn-N,N-diethyl norephedrine are not listed on the schedules to the US Controlled Substances Act and are not mentioned anywhere on the DEA website.

United Nations: The substances are not listed on the Yellow List - List of Narcotic Drugs under International Control, the Green List - List of Psychotropic Substances under International Control, nor the Red List - List of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances Under International Control.

Canadian Status: N-2-Hydroxyethyl norephedrine and rac-syn-N,N-diethyl norephedrine are derivatives or norephedrine and are not currently listed in the CDSA. "Norephedrine (Phenylpropanolamine) and its salts" is currently listed as item 10 in Part 1 of Schedule VI to the CDSA and is considered a Class A Precursor. As neither N-2-Hydroxyethyl norephedrine nor rac-syn-N,N-diethyl norephedrine are salts of norephedrine, they cannot be included under item 10 of Part 1of Schedule VI to the CDSA. Note that the salts, isomers and deuterated forms of N-2-Hydroxyethyl norephedrine and rac-syn-N,N-diethyl norephedrine have the same status as the parent compounds .

Recommendation: N-2-Hydroxyethyl norephedrine and rac-syn-N,N-diethyl norephedrine are not included in the schedules to the CDSA and are not controlled substances.
Date: June 15, 2011