



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

Substance: (2S)-2-(dimethylamino)-1-phenyl-1-propanone

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

Controlled [checked]
Not Controlled [unchecked]

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

- The substance is an analogue of N,N-dimethylamphetamine and included under item 1 of Schedule III to the CDSA.

Prepared by: Evelyn Soo Date: Sept 10th 2010

Verified by: Marianne Tang Date:

Approved by: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES Date:

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

Drug Status Report

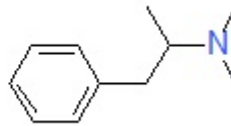
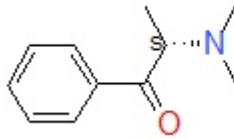
Drug: (2S)-2-(Dimethylamino)-1-phenyl-1-propanone

Drug Name Status: (2S)-2-(dimethylamino)-1-propanone is the common name.

Chemical Name: (-)- α -(dimethylamino)propiophenone

Other Names: (-)-N-Methylephedrone

Chemical structure:



Dimethylamphetamine (DMA)

Molecular Formula: C₁₁H₁₅NO

Pharmacological class / Application: stimulant

CAS-RN: 35026-77-8

International status:

US: The substance is not listed specifically in the Controlled Substances Act 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: (2S)-2-(Dimethylamino)-1-phenyl-1-propanone is not currently listed in the CDSA. However, the substance is considered to be an analogue of dimethylamphetamine, which is known to be abused for its stimulant properties¹. For the purpose of forming status decisions, an analogue refers to a substance that displays significant structural similarity to one included in the CDSA. Accordingly, (2S)-2-(Dimethylamino)-1-phenyl-1-propanone is included under the heading "Amphetamines, their salts, derivatives, isomers and analogues and salts of derivatives,

¹Kim, JY *et al.* (2008) Simultaneous determination of methamphetamine, 3,4-methylenedioxy-N-methylamphetamine, 3,4-methylenedioxy-N-ethylamphetamine, N,N-dimethylamphetamine, and their metabolites in urine by liquid chromatography-electrospray ionisation-tandem mass spectrometry, *Arch. Pharm. Res.* **31**:1644-1651.

isomers and analogues including” of item 1 of Schedule III to the CDSA as an amphetamine analogue. It is noteworthy that the substance may also be considered to be an analogue of methcathinone which is listed as item 21 under Schedule III to the CDSA. However, the item heading “2-methylamino-1-phenyl-1-propanone and any salt after” of item 21 of Schedule III to the CDSA would not include (2S)-2-(Dimethylamino)-1-phenyl-1-propanone as the substance is not a salt of methcathinone.

Recommendation: (2S)-2-(Dimethylamino)-1-phenyl-1-propanone included under item 1 of Schedule III to the CDSA and is a controlled substance.

Date: 10 September 2010