Drug Status Report

Drug: Norbenzphetamine hydrochloride

Drug Name Status: Norbenzphetamine hydrochloride is a common name.

Chemical Name: N-benzyl-α-methyl-phenethylamine

Other Names: 1-phenyl-2-benzylaminopropane

Chemical structure:

\[
\begin{align*}
&\text{Benzphetamine} \\
&\text{Chemical structure}
\end{align*}
\]

Molecular Formula: C_{16}H_{19}N

CAS-RN: 1085-42-3

Pharmacological class / Application: amphetamine

International status:

US: The substances is not currently listed on the schedules to the US Controlled Substances Act and is not mentioned 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: Norbenzphetamine is not currently listed in the CDSA. However, the substance is a metabolite of benzphetamine, formed via the oxidation of benzphetamine by the cytochrome P450 enzyme CYP2B4\(^1\). Benzphetamine is listed as sub-item 18 under item 1 of Schedule III to the CDSA, under the heading “Amphetamines, their salts, derivatives, isomers and analogues and salts of derivatives, isomers and analogues including:” Considering that norbenzphetamine is a metabolite of benzphetamine, it is included under item1(18) of Schedule III by virtue of being a derivative of norbenzphetamine.

Recommendation: Norbenzphetamine is included under item 1(18) of Schedule III to the CDSA and is a controlled substance.

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July 15th 2010.