

Drug Status Report

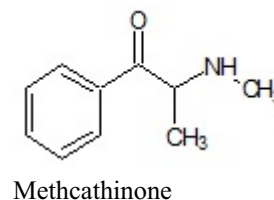
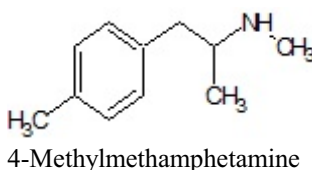
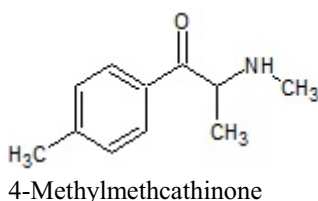
Drug: 4-Methylmethcathinone

Drug Name Status: 4-Methylmethcathinone is the common name

Other Names: Mephedrone; 2-methylamino-1-p-tolylpropan-1-one

Chemical Name: 2-Methylamino-1-(4-methylphenyl)-1-propanone

Chemical structure:



Molecular Formula: C₁₁H₁₅NO

Pharmacological class / Application: stimulant

International status:

US: The substance is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website. However, 4-methylmethcathinone is controlled¹ in the US due to the analogue provisions in the CSA.

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: Item 1 of Schedule III to the CDSA is, "Amphetamines, their salts, derivatives, isomers and analogues and salts of derivatives, isomers and analogues." Although not listed specifically in item 1 of Schedule III, 4-methylmethamphetamine (structure above) is an amphetamine. 4-Methylmethcathinone is analogous to 4-methylmethamphetamine in that it contains the same structure with an additional oxygen. 4-Methylmethcathinone is therefore an analogue of 4-methylmethamphetamine and is included in item 1 of Schedule III to the CDSA.

A similar rationale was used to recommend that 2-methylamino-1-(3,4-methylenedioxy)-propiophenone be included in item 1 of Schedule III. That report is appended for information.

¹ http://www.usdoj.gov/dea/programs/forensicsci/microgram/journal_v5_num14/pg1.html

The substance is also structurally similar to 2-methylamino-1-phenyl-1-propanone (methcathinone) which is listed as item 21 of Schedule III to the CDSA.

Recommendation: 4-Methylmethcathinone is included in item 1 of Schedule III to the CDSA and is a controlled substance.

June 19, 2008

Drug Status Report

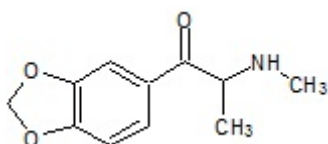
Drug: 2-Methylamino-1-(3,4-methylenedioxy)-propiofenone

Drug Name Status: 2-Methylamino-1-(3,4-methylenedioxy)-propiofenone is the common name

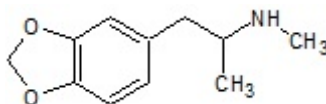
Other Names: Methyloxy; Explosion

Chemical Name: N, α -Dimethyl-1,3-benzodioxole-5-(2-oxoethanamine)

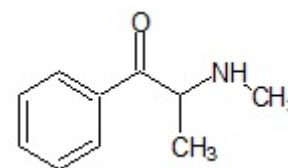
Chemical structure:



2-Methylamino-1-(3,4-methylenedioxy)-propiofenone



N-methyl-3,4-methylenedioxyamphetamine (MDMA)



Methcathinone

Molecular Formula: C₁₁H₁₃NO₃

Pharmacological class / Application: stimulant

International status:

US: The substance is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website. However, 2-methylamino-1-(3,4-methylenedioxy)-propiofenone may be controlled in the US due to the analogue provisions in the CSA.

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: Item 1 of Schedule III to the CDSA is, "Amphetamines, their salts, derivatives, isomers and analogues and salts of derivatives, isomers and analogues." Subitem 1(9) is N-methyl-3,4-methylenedioxyamphetamine which is also known as MDMA and Ecstasy (structure shown above). 2-Methylamino-1-(3,4-methylenedioxy)-propiofenone is analogous to MDMA in that it contains the same structure with an additional oxygen. 2-Methylamino-1-(3,4-methylenedioxy)-propiofenone is therefore an analogue of MDMA and is included in item 1 of Schedule III to the CDSA. The hydrochloride salt has the same status.

The substance is also structurally similar to 2-methylamino-1-phenyl-1-propanone (methcathinone) which is listed as item 21 of Schedule III to the CDSA.

Recommendation: 2-Methylamino-1-(3,4-methylenedioxy)-propiofenone and its hydrochloride

salt are included in item 1 of Schedule III to the CDSA and are controlled substances.

May 8, 2007