

Drug Status Report

Drug: 2-methyl-tetrahydrofuran

Drug Name Status: 2-methyltetrahydrofuran is the common name

Chemical Name: 2-methyl-tetrahydrofuran

Other names: 2-methyloxolane; methyltetrahydrofuran; 2-MeTHF

Chemical structure:



Molecular Formula: C₅H₁₀O

CAS-RN: 96-47-9

Pharmacological/chemical class / Application: fine chemical

International status:

US: The substance is not listed on 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, 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: 2-methyltetrahydrofuran is a chemical that is used as a solvent in organic reactions and is increasingly viewed as a more environmentally friendly alternative to tetrahydrofuran^{1,2}. The substance is not listed in the CDSA and is not structurally similar to any of the substances listed in the Schedules to the CDSA.

Recommendation: 2-methyltetrahydrofuran is not included in the Schedules to the CDSA and is not a controlled substance.

July 13th 2010

¹Simeo, Y et al. (2009) Regioselective enzymatic acylation of pharmacologically interesting nucleosides in 2-methyltetrahydrofuran, a greener substitute for THF, Green Chem. 11:855-862.

²Aycock DF. (2007) Solvent applications of 2-methyltetrahydrofuran in organometallic and biphasic reactions, Org. Process Res. Dev. 11:156-159.