Drug Status Report

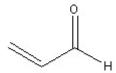
Drug: Acrolein

Drug Name Status: Acrolein is the common name.

Chemical Name: 2-propenal

Other Names: Acryaldehyde; ethylene aldehyde; pro-2-en-1-al

Chemical structure:



Molecular Formula: C₃H₄O

Pharmacological class / Application: Fine chemical

International status:

US: Acrolein is not listed specifically in the Schedules to the CSA and is not mentioned anywhere on the DEA website.

United Nations: Acrolein is not included in the UN Red List - List of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances under International Control.

Canadian Status: Acrolein is a widely used chemical reagent, particularly in the industrial production of acrylic acid and in the plastics industry. The substance is also released from food upon heating and during the combustion of petroleum and biodiesel¹. Although acrolein is a starting material in the synthesis of tilidine, which is controlled under item 17 of Schedule I to the CDSA, the substance is not a salt, derivative or salt of a derivative of tilidine and therefore is not included under item 17 of Schedule I to the CDSA. In addition, acrolein is not similar in structure to any of the other substances listed in the Schedules to the CDSA.

Recommendation: Acrolein is not included in any of the Schedules to the CDSA and is not a controlled substance.

April 12th 2010.

¹Stevens, JF. and Maier, CS. (2008) Acrolein: Sources, metabolism, and biomolecular interactions relevant to human health and disease, Mol. Nutr. Food. Res. **52**:7-25.