

Drug Status Report

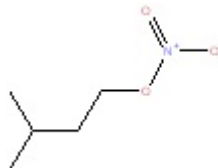
Drug: Isoamyl nitrate

Drug Name Status: Isoamyl nitrate is the common name

Chemical Name: 3-methyl-1-butanol nitrate

Other Names: 3-methyl-1-butanol nitrate; isopentyl alcohol, nitrate; isopentyl nitrate

Chemical structure:



Molecular Formula: C₅H₁₁NO₃

CAS-RN: 543-87-3

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: Isoamy nitrate is not currently listed in the CDSA. The substance has been widely used as an additive in engine fuels, for example, in diesel fuel to improve the performance of diesel engines¹. The substance is not structurally similar to any of those listed in the Schedules to the CDSA.

Recommendation: Iosamyl nitrate is not included in the schedules to the CDSA and is not a controlled substance.

July 9th 2010

¹Boodberg, A. and Cornet, I. (1951) Atmospheric pressure apparatus for studying ignition delay, Ind. Eng. Chem. **43**:2814-2818.