



Health
Canada

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**STATUS DECISION OF CONTROLLED
AND NON-CONTROLLED SUBSTANCE(S)**

Substance: Dodecanedioic acid

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled
Not Controlled

under the schedules of the *Controlled Drugs and Substances Act* (CDSA) for the following reason(s):

- The substance is not similar to any of those listed in the CDSA.

Prepared by: _____ Date: Aug 23th 2010
Evelyn Soo

Verified by: _____ Date: _____
Marianne Tang

Approved by: _____ Date: _____
DIRECTOR, OFFICE OF CONTROLLED
SUBSTANCES

This status was requested by: "third party information removed as per agreement with applicant"

Drug Status Report

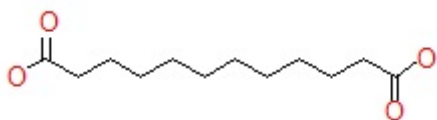
Drug: Dodecanedioic acid

Drug Name Status: Dodecanedioic acid is the common name.

Chemical Name: 1,10-decanedicarboxylic acid

Other names: 1,10-Dicarboxydecane; 1,12-Dodecanedioic; Decamethylenedicarboxylic acid

Chemical Structure:



Molecular Formula: C₁₂H₂₂O₄

Pharmacological class / Application: Fine chemical

CAS-RN: 693-23-2

International status:

US: The substance is not listed specifically in the CSA and is not mentioned anywhere 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: Dodecanedioic acid is a straight chain dicarboxylic acid and has been shown to be an effective as a fuel or alternate lipid substrate^{1,2}, and has also been used in the manufacture of biodegradable polymers³. The substance is not currently listed in the CDSA and is not structurally similar to any of the substances included in the Schedules to the CDSA.

¹Salinari, S. *et al.* (2006) Dodecanedioic acid overcomes metabolic inflexibility in type 2 diabetic subjects, *Am. J. Physiol. Endocrinol. Metab.* **291**:E1051-E1058.

²Capristo, E *et al.* (1999) A new HPLC method for the direct analysis of triglycerides and dicarboxylic acids in biological samples, *Clin. Chim. Acta*, **289**:11-21.

³Takasu, A. *et al.* (2006) Polycondensation of dicarboxylic acids and diols in water catalyzed by surfactant-combined catalysts and successive chain extension, *Biomacromolecules*, **7**:6-9.

Recommendation: Dodecanedioic acid is not similar to any of the substances included in the Schedules to the CDSA and is not a controlled substance.

Date: 24 August 2010