



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

Substance: I - Diethyl isopentylmalonate
II - Diethyl sec-butylmalonate
III - Diethyl isobutylmalonate
IV - Diethyl propylmalonate
V - Diethyl malonate

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

Controlled [ ]
Not Controlled [x]

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

- The substances are not similar in structure to any of those listed in the schedules to the CDSA

Prepared by: Evelyn C Soo Date: Sept 17th 2010

Verified by: Marianne Tang Date:

Approved by: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES Date:

This status was requested by: Eva Roig

## Drug Status Report

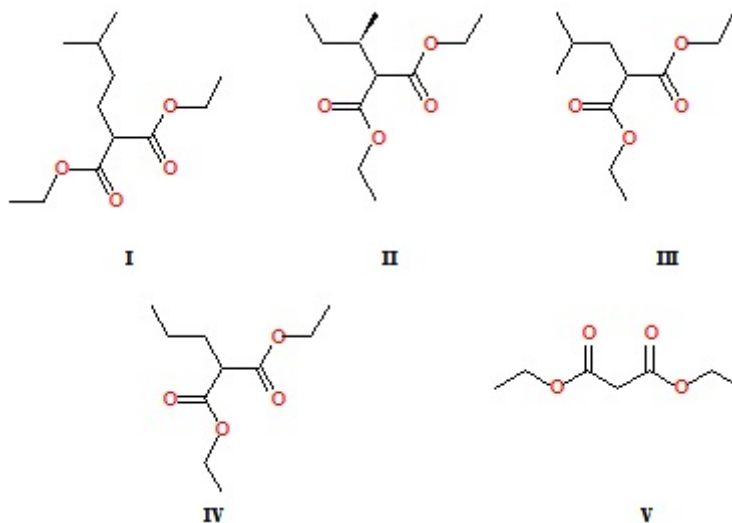
**Drug:** I - Diethyl isopentylmalonate  
II - Diethyl sec-butylmalonate  
III - Diethyl isobutylmalonate  
IV - Diethyl propylmalonate  
V - Diethyl malonate

**Drug Name Status:** I - Diethyl isopentylmalonate  
II - Diethyl sec-butylmalonate  
III - Diethyl isobutylmalonate  
IV - Diethyl propylmalonate  
V - Diethyl malonate are common names

**Chemical Name:** I - Diethyl isopentylmalonate  
II - Diethyl (1-methylpropyl)malonate  
III - Propanedioic acid, (2-methylpropyl)-, diethyl ester  
IV - Diethyl propylmalonate  
V - Malonic acid, diethyl ester

**Other Names:** I - none  
II - sec-Butylmalonic acid diethyl ester  
III - Propanedioic acid, 2-(2-methylpropyl)-, 1,3-diethyl ester  
IV - none  
V - Propanedioic acid, 1,3-diethyl ester; Propanedioic acid, diethyl ester

### Chemical Structure:



**Molecular Formula:** I -  $C_{11}H_{20}O_4$ ; II -  $C_8H_{14}O_4$ ; III -  $C_{11}H_{20}O_4$ ; IV -  $C_{10}H_{18}O_4$ ; V -  $C_7H_{12}O_4$

**CAS-RN:** I - 5398-08-3; II - 83-27-2; III - 10203-58-4; IV - 2163-48-6; V - 105-53-3-3

**Pharmacological class / Application:** Fine Chemical

**International status:**

US: The substances are not listed specifically in the CSA and are not mentioned anywhere on the DEA website.

United Nations: The substance are 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: Diethyl isopentylmalonate, diethyl sec-butylmalonate, diethyl isobutylmalonate, diethyl propylmalonate and diethyl malonate are derivatives of malonic acid and are claimed to be starting materials in the synthesis of various barbituric acids. The substances are not listed specifically in the CDSA and are not structurally similar to any of the substances included in the Schedules to the CDSA.

**Recommendation:** Diethyl isopentylmalonate, diethyl sec-butylmalonate, diethyl isobutylmalonate, diethyl propylmalonate and diethyl malonate are not included in the Schedules to the CDSA and is not a controlled substances.

**Date:** September 17th, 2010