Health Canada Santé Canada

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

Substance: 1,3-Bis(benzyloxy)-2-propanol

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 the substances included in the schedules to the CDSA.

Prepared by: _____ Date: Dec 3rd 2010
Evelyn Soo

Verified by: _____ Date: _____
Marianne Tang

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

This status was requested by: Michelle Day, Inspectorate

Drug Status Report

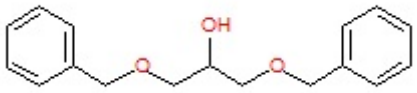
Drug: 1,3-Bis(benzyloxy)-2-propanol

Drug Name Status: 1,3-Bis(benzyloxy)-2-propanol is the common name.

Chemical Name: 1,3-Dibenzyloxy-2-propanol

Other Names: 1,3-Di-O-benzylglycerol; 1,3-Dibenzylglycerol; DBG; 1,3-Bis(phenylmethoxy)-2-propanol; 1,3-Dibenzylglycerin; 1,3-Dibenzyloxy-2-hydroxypropane

Chemical structure:



Molecular Formula: $C_{17}H_{20}O_3$

CAS-RN: 6972-79-8

Pharmacological class / Application: Fine chemical

International status:

US: 1,3-Bis(benzyloxy)-2-propanol is not currently listed in the Schedules to the US *Controlled Substances Act* 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: 1,3-Bis(benzyloxy)-2-propanol is a protected glycerol and has broad application in organic synthesis reactions, for example, in the synthesis of catalytic ligands[1], imaging agents for gene expression analysis[2], as well as cyclopropane derived nucleosides with chemotherapeutic potential[3]. The substance is not currently listed in the Schedules to the CDSA

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[1]Siggelkow, BA and Gad, LH. (2005) Multiple functionalization of Bis(2-pyridylimino)isoindole (BPI) ligands: their molecular synthesis and coordination to palladium(II), Z. Anorg. Allg. Chem., **631**:2575-2584.

[2]Wang J-Q. et al. (2004) An improved total synthesis of PET HSV-tk gene expression imaging agent 9-[(3-18F)Fluoro-1-hydroxy-2-propoxy)methyl]guanine ([H18F]FHPG, Syn. Comm. **34**:917-932

[3]Csuk, R. And Thiede, G. (1999) Preparation of Novel Difluorocycylopropane nucleosides, Tetrahedron, **55**;739-750.

and is not similar to any of the substances included in the schedules to the CDSA.

Recommendation: 1,3-Bis(benzyloxy)-2-propanol is not included in the schedules to the CDSA and is not a controlled substance.

Date: 3 December 2010