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

Substance: 1-Phenyl-2-nitropropene

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 substance is not structurally similar to any of those listed in the Schedules to the CDSA.

Prepared by: __________________________ Date: ______________
Evelyn C Soo

Verified by: __________________________ Date: ______________
Mark Kozlowski

Approved by: __________________________ Date: ______________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Sandra Jarvis, RAPB
Drug Status Report

**Drug:** 1-Phenyl-2-nitropropene

**Drug Name Status:** 1-Phenyl-2-nitropropene is the common name.

**Chemical Name:** (2-Nitro-1-propenyl)benzene

**Other Names:** (2-Nitropropenyl)benzene; 1-(2-Nitropropenyl)benzene; 1-(2-Nitropropenyl)benzene; beta-Methyl-beta-nitrostyrene

**Chemical structure:**

\[
\begin{array}{c}
\text{O} \\
\text{N} \\
\text{O} \\
\end{array}
\]

**Molecular Formula:** C$_9$H$_9$NO$_2$

**Pharmacological class / Application:** Fine chemical

**CAS-RN:** 705-60-2

**International status:**

US: 1-Phenyl-2-nitropropene is not listed specifically in the Schedules to the US *Controlled Substances Act.* However, the substance is known to be used in the illicit manufacture of amphetamine and its identification in seized exhibits has been reported on the US DEA website\(^1\).

United Nations: The substance is not listed on 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-Phenyl-2-nitropropene is not listed in the schedules to the CDSA. The substance is known to be used in the illicit manufacture of amphetamine *via* the Knoevenagel or “nitrostyrene” route where 1-phenyl-2-nitropropene is prepared from benzaldehyde and nitroethane, and subsequently reduced to produce amphetamine\(^ii\). However, the substance is not structurally similar to any of those listed in the CDSA.

**Recommendation:** 1-Phenyl-2-nitropropene is not included in the Schedules to the CDSA and is not a controlled substance, nor a precursor chemical.

**Date:** September 11\(^{th}\), 2012.