Health Canada Santé Canada

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

Substance: 2-Chlorobenzonitrile

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 schedules to the CDSA.

Prepared by: _____ Date: August 4th 2010
Victoria-Magali Zelaya

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

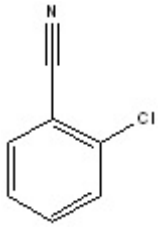
Drug: 2-Chlorobenzonitrile

Drug Name Status: 2-Chlorobenzonitrile

Chemical Name: 2-Chlorobenzonitrile

Other Names: 2-chloro-benzonitrile; o-chlorobenzonitrile; o-Cyanochlorobenzene

Chemical structure:



Molecular Formula: C_7H_4ClN

Pharmacological class / Application: fine chemical

CAS-RN: 873-32-5

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 nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: 2-Chlorobenzonitrile is used as an intermediate in the synthesis of biologically active compounds[1] and is also claimed to be a starting material in the synthesis of 5,6–dehydronorketamine. The substance is not listed specifically in the CDSA and is not structurally similar to any of the substances included in the Schedules to the CDSA.

Recommendation: 2-Chlorobenzonitrile is not included in the schedules to the CDSA and is not a controlled substance.

Date: August 4th, 2010

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[1]Gug, F. *et al.* (2004) A single step synthesis of 6-aminophenanthridines from anilines and 2-chlorobenzonitriles, Tetrahedron, **60**:4705-4708.