Drug Status Report

Drug: 3,4-dimethylpyridine

Drug Name Status: 3,4-dimethylpyridine is the common name

Chemical Name: 3,4-dimethylpyridine

Other Names: 3,4-lutidine

Chemical structure:

![Chemical Structure](image)

Molecular Formula: C₇H₉N

CAS-RN: 583-58-4

Pharmacological/chemical class / Application: fine chemical

International status:

US: The substance is not listed on the US Controlled Substances Act and is not mentioned 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: 3,4-dimethylpyridine is a starting material used in the synthesis of pentazocine and is also used in organic chemistry reactions for the synthesis of crystal structures¹. The substance is not structurally similar to any of those listed in the Schedules to the CDSA.

Recommendation: 3,4-dimethylpyridine is not included in the schedules to the CDSA and is not a controlled substance.

July 9th 2010

¹Mautner, FA. and Goher, MAS. (1994) Spectroscopic and crystal structure study of polymeric 2:3 and 1:1 complexes of 2,6-lutidine and 3,4-lutidine with copper(II) azide; Cu₃(2,6-lutidine)₂(N₃)₆ and Cu(3,4-lutidine)(N₃)₂, Polyhedron, 13:2141-2147.