

## Drug Status Report

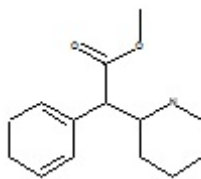
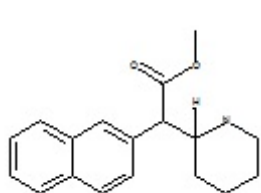
**Drug:** Methylnaphthidate

**Drug Name Status:** HDMP-28 is the common name.

**Chemical Name:** ( $\alpha$ R,2R)- $\alpha$ -(2-naphthalenyl)-2-piperidineacetic acid methyl ester

**Other Names:** Methyl(2R)-2-naphthyl[(2R)-piperidin-2-yl] acetate

**Chemical structure:**



**methylphenidate**

**Molecular Formula:** C<sub>18</sub>H<sub>21</sub>N<sub>02</sub>

**CAS-RN:** 664303-55-3

**Pharmacological class / Application:** Stimulant

**International status:**

US: The substance is not currently listed on the schedules to 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 nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Methylnaphthidate is not listed specifically in the CDSA. The substance is a structural analogue of methylphenidate, and pharmacologically, the substance displays nonselective affinity for the dopamine and 5-hydroxytryptamine transporters and is a potent reinforcer<sup>1</sup>.

Methylphenidate is currently listed as item 2 under Schedule III to the CDSA, under the heading "Methylphenidate (a-phenyl-2-piperidine acetic acid methyl ester) and any salt thereof".

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<sup>1</sup>Lile, JA (2006) Pharmacological determinants of the reinforcing effects of psychostimulants: relation to agonist substitution treatment, *Expt. Clin. Psychopharmacol.* **14**:20-33.

Although methylnaphthidate is a structural analogue of methylphenidate and a potent psychostimulant, the substance is not a salt of methylphenidate and therefore cannot be included under item 2 of Schedule III to the CDSA.

Recommendation: Methylnaphthidate is included not under item 2 of Schedule III to the CDSA and is not a controlled substance.

July 9<sup>th</sup> 2010.