

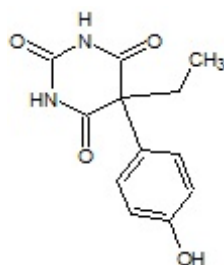
## Drug Status Report

**Drug:** 5-Ethyl-5-(4-hydroxyphenyl)barbituric acid

**Drug Name Status:** 5-Ethyl-5-(4-hydroxyphenyl)barbituric acid is a common name

**Chemical Name:** 5-Ethyl-5-(4-hydroxyphenyl)-2,4,6(1H,3H,5H)-pyrimidinetrione

**Chemical structure:**



**Molecular Formula:**  $C_{12}H_{12}N_2O_4$

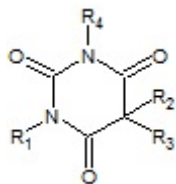
**Pharmacological or Chemical class / Application:** barbiturate

**International status:**

US: The chemical is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website. However, barbituric acid derivatives are included in Schedule III to the CSA which would include 5-ethyl-5-(4-hydroxyphenyl)barbituric acid .

United Nations: The chemical is not listed on the Yellow List - List of Narcotic Drugs under International Control. The drug is not listed on the Green List - List of Psychotropic Substances under International Control.

Canadian Status: The drug is currently not listed specifically on the CDSA. Item 1 of Schedule IV to the CDSA is, "Barbiturates, their salts and derivatives." The barbiturates listed in item 1 contain the following characteristic root structure:



Where  $R_1$ ,  $R_2$ ,  $R_3$ , and  $R_4$  are various chemical constituents that differentiate the barbiturates. When  $R_1$ ,  $R_2$ ,  $R_3$ , and  $R_4$  all equal H, the substance at the left is barbituric acid.

From the structure of 5-ethyl-5-(4-hydroxyphenyl)barbituric acid acid above, it is clear that it is a member of the barbiturate family.

Recommendation: 5-Ethyl-5-(4-hydroxyphenyl)barbituric acid is included in item 1 of Schedule IV to the CDSA and is a controlled substance.

September 22, 2009