Drug Status Report

Drug: Potassium ethyl malonate

Drug Name Status: Potassium ethyl malonate is the common name

Chemical Name: Ethyl malonate, potassium salt

Other Names: Potassium 3-ethoxy-3-oxo-propanoate; propanedioic acid, monoethyl ester, potassium salt; Malonic acid, monoethyl ester, potassium salt; Ethyl potassium malonate

Chemical structure:

\[
\begin{align*}
\text{O} & \quad \text{O} \\
\text{O} & \quad \text{K}^+ \\
\end{align*}
\]

Molecular Formula: C_5H_7KO_4

Pharmacological class / Application: Fine chemical

International status:

US: The substance is not listed on the schedules to the CSA 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 drug is not listed on the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Potassium ethyl malonate is used as a reagent in organic synthesis\(^1\)\(^2\) and is commonly used as an intermediate in the synthesis of pharmaceuticals having a quinolone structure, for example the β-lactones and β-lactams\(^3\)\(^4\). Potassium ethyl malonate is not listed on the CDSA and is not structurally similar to any of the substances listed in the Schedules to the CDSA.


Recommendation: Potassium ethyl malonate is not included in the Schedules to the CDSA and is not considered a controlled substance.