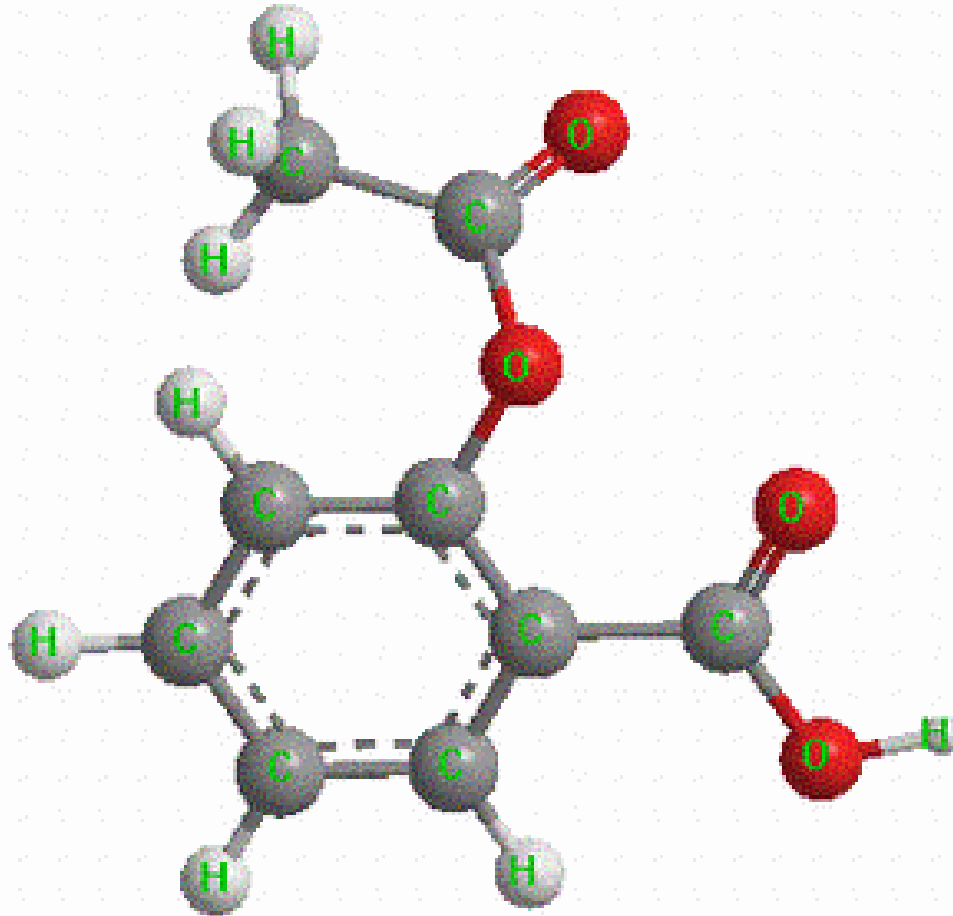# Molarity of aspirin

Molarity of aspirin

We can consider some rudimentary pharmacology using our knowledge of molar mass of aspirin. Aspirin has a chemical formula $C_9O_4H_8$. Assuming that a grown person takes 1 gram of aspirin and that all of the aspirin is taken up into the blood stream (total volume is 5 liters), then what is the concentration of aspirin in the blood (in units of molarity)?