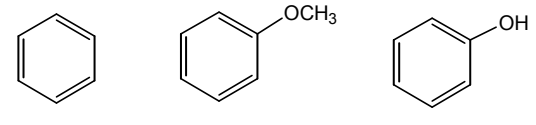
Project 4 of Chem 2320

Honorary

I. Propose a multi-step synthetic scheme (route) for the preparation of your designated compound. Feel free to use any reagents, for example, Lewis acids, catalysts, reductive agents or oxidative agents described in your textbook or in the lecture for your synthesis. You can **only** use the available starting material for your reactions. However, you can use any reagents to convert the given starting material into the compounds you need. Let met know if you think you need other starting material.

Available starting material:



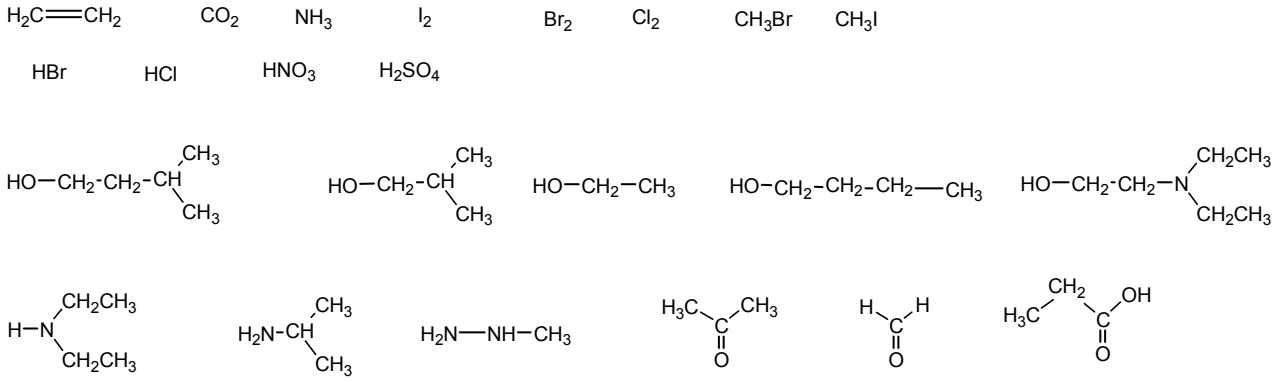
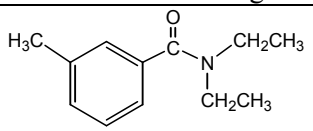
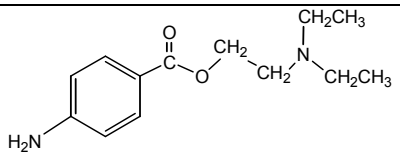
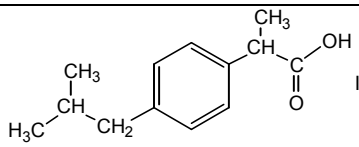
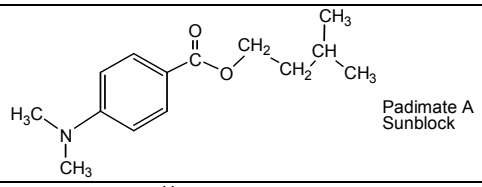
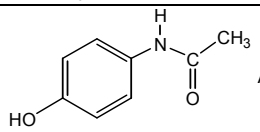
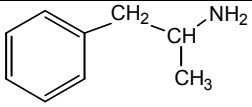
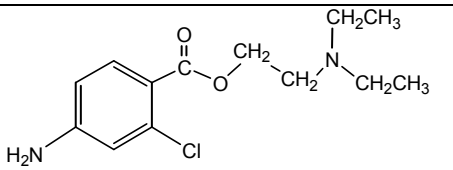


Table 1

Compound Number	Target compound
1	 *N,N*-Diethyl-*m*-toluamide (DEET) Insect repellent
2	 Procaine (Novocaine) Anesthetic
3	 Ibuprofen (Motrin)

4	 Padimate A Sunblock
5	 Acetaminophen (Tylenol)
6	 Amphetamine
7	 Chloroprocaine (Nesacaine) Anesthetic