

# Ethyl Acetate-Sodium Hydroxide Kinetics

Version 97.5

**Start up: The following steps should be taken before the experiment is started.**

1) Find and read literature concerning ethyl acetate and sodium hydroxide

kinetics.

2) Prepare solutions to be used in the experiment. (0.1M solutions have been prepared and should be on the lab bench.)

3) Turn on the constant temperature bath and select the desired temperature. Use the cooling or heating switch to cool or heat the water to the desired temperature.

4) Place a solution in the one liter batch reactor.

5) Turn on the stir plate and place a magnetic stir bar in the reactor.

6) Turn on the pH meter and follow the enclosed [pH meter instructions](#).

7) Be sure that the pH meter has been properly [calibrated](#).

8) Add the needed reactant for the desired reaction to occur. Use the temperature and pH probe to measure reaction conditions.

**Shutdown: These steps are to be followed when ending the experiment.**

1) Turn off the constant temperature bath. **Be sure to turn off the cooling switch!**

2) Turn off the magnetic stirrer.

3) Empty the reactor and clean it.

4) Dispose of all wastes in appropriately labeled containers that have been provided.