

Hydrolysis of Haloalkanes

Pre-lesson assignment – Textbook pg 226-228

Define the following key words

- Hydrolysis
- Average Bond enthalpy

Make notes on the hydrolysis of haloalkanes

Use the following questions to structure your notes.

1. You will be doing an experiment to investigate the rate of hydrolysis of haloalkanes. Suggest a method, including
 - a. The independent variable and how it could be changed.
 - b. The dependent variable and how it could be measured.
 - c. The method used.
2. Halogens react with silver nitrate solution.
 - a. Write an ionic equation for the reaction of silver ions with each halide ion, including state symbols.
 - b. What colour would the precipitate be in each case?
3. Predict, using the textbook, how the rate of hydrolysis could depend on...
 - a. The bond enthalpy of the C-X bond.
 - b. The stability of any carbocations formed in the reaction mechanism.