

Acid / Base indicators

Introduction:

It is very rare that the food and drinks we consume are neutral. They are usually acidic or basic to some extent but some are more acidic than others while others are more basic than others. In this lab we will determine how acidic and basic some food/ drinks and chemicals are.

Purpose: To make a pH scale by using the data from the experiment.
To determine how indicators work.

Materials:

Procedure:

1. In a tray place one sample of liquid in a row of three. Remember to rinse out the dropper between each use.
2. Write down the name of each sample on your record sheet.
3. In one tray place two different pieces of litmus paper then record your data.
4. In another, first place a hydron strip, record your data, then add 2 drops of Bromothymol Blue.
5. In the last well place 2 drops of Phenolphthalein and record your data.
6. After every well has been tested, rinse out the tray.
- * For the last sample add 5 drops of NaOH, take its pH, then add 2 drops of Phenolphthalein. Record your data. Next, add HCL (hydrochloric acid) to the NaOH one drop at a time. Take its pH after the solution has turned clear.