

PURPOSE

To test some of the properties of formic acid

EQUIPMENT

test tubes

water bath

MATERIALS

formic acid

granulated zinc

methyl orange

phenolphthalein

ammoniacal AgNO_3 solution

solid NaOH

PROCEDURE

1. Place 5ml of formic acid into four test tubes.
2. Put granulated zinc into the first test tube.
3. Add a few drops of methyl orange whose color turns into yellow by a base, to the second test tube.
4. To the third test tube add phenolphthalein solution whose color turns into red by a base.
5. Add 5ml ammoniacal AgNO_3 solution and a little bit solid NaOH to the fourth tube and place the tube in a water-bath.

QUESTIONS

1. Write an equation for the reaction Zn and formic acid.
2. What is an indicator?