

## PURPOSE

To test some of the properties of oils.

**EQUIPMENT**      test tubes

**MATERIALS**

sunflower oil	sesame oil	animal fat	gasoline
ethanol	$C_6H_6$	$CCl_4$	bromine water
formic acid			

## PROCEDURE

### PART A: Solubility of Oils

1. Take five test-tubes.
2. Place 2 ml of gasoline to the first test-tube and 2 ml of distilled water to second tube; 2 ml of ethanol to third tube; 2ml of benzene to the fourth tube; and 2ml of  $CCl_4$  to the fifth tube.
3. Add a little amount of sunflower oil to all these test tubes.
4. Shake them and observe the results.

## **PART B: Saturated and Unsaturated oils**

1. Take three test tubes.
2. Put 2ml of sunflower oil to the first tube and 2ml of sesame oil to the second tube.
3. Place a little bit of solid animal fat to the third tube and heat it to liquify.
4. Add some bromine water solution to these three test tubes.
5. Shake them and observe the results.

## **QUESTIONS**

1. In which solvent, oils are the most soluble?
2. To clean oil from your shirts which substance do you use?
3. Which oil is the most unsaturated?