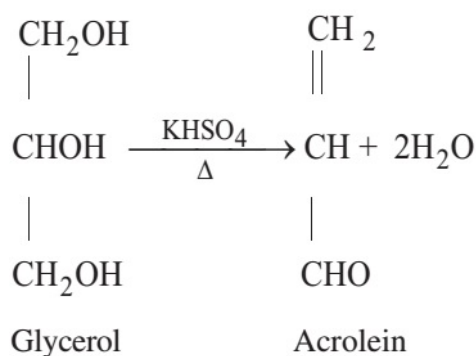


Lipids

To study the physical and chemical properties of some different types of lipids several tests were developed for this purpose:

Experiment No.(9) Acrolein test:

- The Acrolein test is a general test for the presence of glycerol in a molecule.
- When potassium bisulfate (KHSO₄) is heated with a fat, hydrolysis occurs, and the glycerol produced.
- Acrolein has a characteristic sharp irritating odor.



Material:

4. Olive oil or fat.
5. Potassium bisulphate or sodium sulfate powder

Procedure:

1. Place few drops of test compound in a clean and dry test tube.
2. Add few grams of KHSO₄ or Na₂SO₄ powder into the test tube.
3. Heat the test tube directly.
4. Note the characteristic sharp irritating odour of Acrolein.

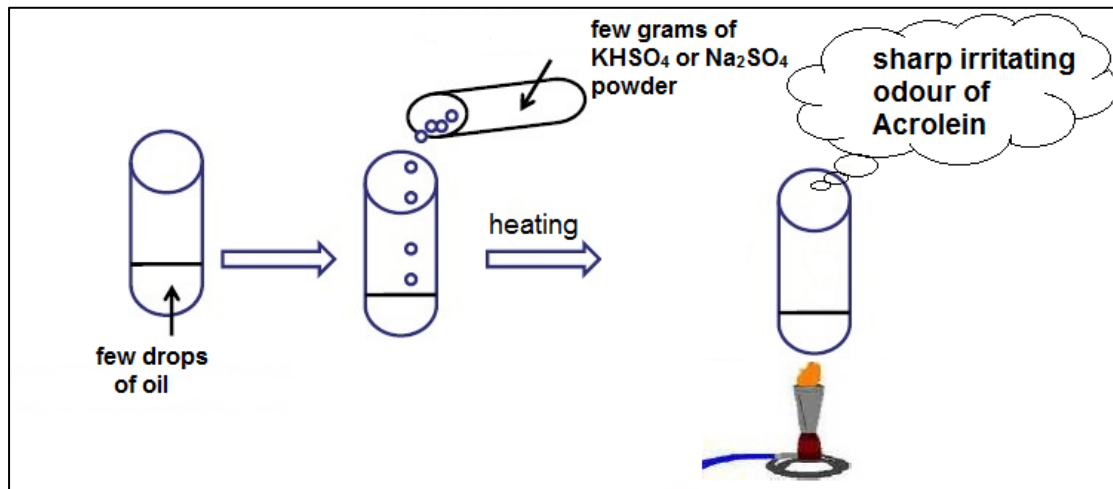


Figure 9. Procedure of Acrolein test.