



Libyan International Medical University

Faculty of Pharmacy

Potentiometry

Amena Hammoda

Takwa Esam

Faiza Shahut

Objectives

A cartoon illustration of a scientist with grey hair, wearing a white lab coat and blue safety goggles. The scientist is holding a test tube with pink liquid in their right hand. The background is a light, slightly blurred version of the same scientist.

- **Define potentiometry**
- **Explain components of potentiometry**
- **List types of potentiometry**
- **Identify uses of potentiometry**

Introduction



In this presentation we will define potentiometry which is a technique similar to direct titration, then the components of potentiometry. Moreover, list the four types Potentiometry and their uses.

Define potentiometry

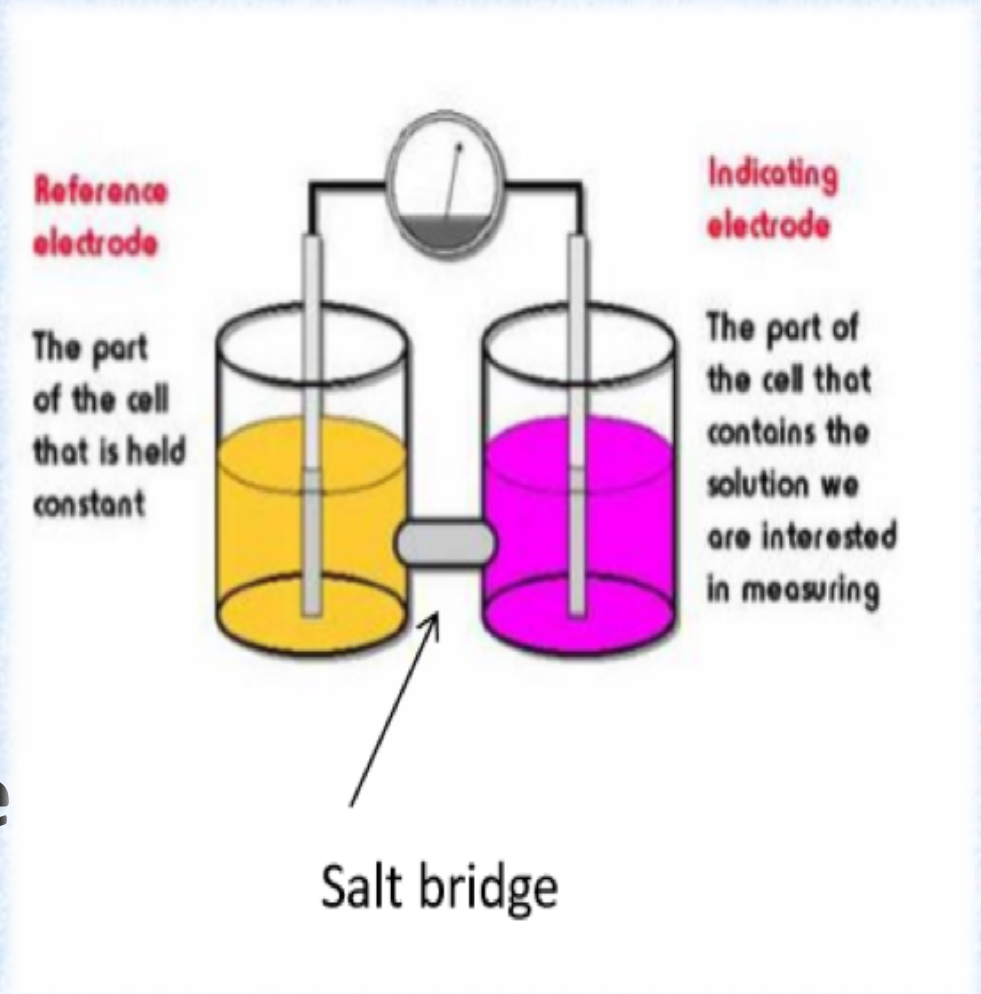


Potentiometry is one of the methods of electroanalytical chemistry. It is usually employed to find the concentration of a solute in solution.



Explain components of a Potentiometric Cell

- Analyte
- Salt bridge
- Indicator electrode
- Reference electrode



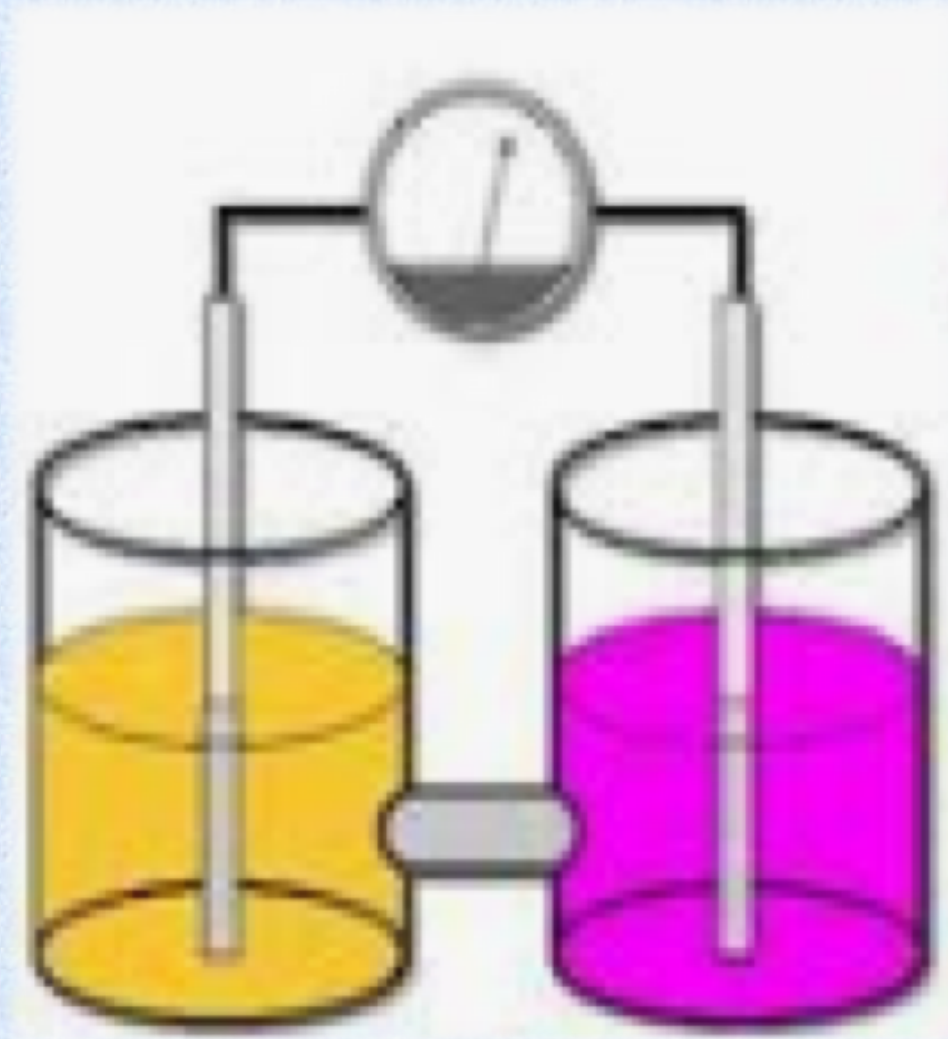
List types of potentiometry

1-Redox titration

2-Acid-base titration

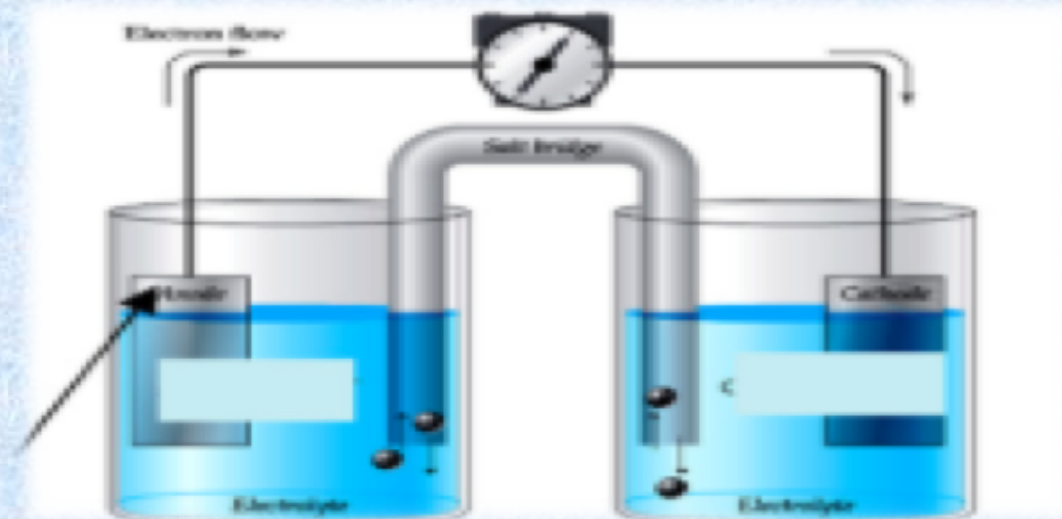
3-Complexmetric titration

4-Precipitation titration



Identify uses of potentiometry

- Potentiometric titration is used for measuring the change in the electrical potential when a neutralizing agent (titrant) is added to a chemical solution.



Summary



- **We talked about Potentiometry which is one of the methods of electroanalytical chemistry and then mentioned its components. In addition, we listed the types of potentiometry and their uses.**

Reference

A cartoon illustration of a scientist with wild, grey hair, wearing a white lab coat over a light blue shirt and a red tie. He is holding a test tube with pink liquid in his right hand and a beaker with green liquid in his left hand. The background is white.

Snustad, D.P. & Simmons, M.J. (n.d.) *Analytical Chemistry 7e* by Gary D. Christian.

Anon (n.d.) *potentiometry*. [Online] Available from: <https://brainly.in/question/1619257>.

Thank you

