

Preparation of Colloidal Solutions - Surface Chemistry - Class 12 Chemistry Chapter 5 - 2022-23

There are several methods for preparing colloidal solutions. Some of the most common methods include:

- **Dispersion method:** In the dispersion method, the dispersed phase is broken down into small particles by mechanical means, such as shaking, grinding, or ultrasonication. This method is often used to prepare lyophobic colloids.
- **Condensation method:** In the condensation method, the dispersed phase is formed by the condensation of molecules from the vapor phase. This method is often used to prepare lyophilic colloids.
- **Peptization:** In peptization, a freshly prepared precipitate is converted into a colloidal sol by adding a small amount of electrolyte. The electrolyte acts as a stabilizing agent, preventing the dispersed particles from settling out.
- **Bredig's arc method:** In Bredig's arc method, an electric arc is struck between two electrodes immersed in the dispersion medium. The heat and light from the arc vaporize the electrodes, and the metal atoms then condense to form colloidal particles.
- **Dialysis:** In dialysis, a colloidal solution is separated from the dispersed phase by a semi-permeable membrane. The membrane allows the solvent to pass through, but it prevents the dispersed particles from passing through. This

The choice of method for preparing a colloidal solution depends on the nature of the dispersed phase and the dispersion medium. For example, the dispersion method is often used to prepare lyophobic colloids, while the condensation method is often used to prepare lyophilic colloids.

Here are some additional details about the preparation of colloidal solutions:

1. The dispersion method is a simple and effective method for preparing colloidal solutions. However, it can be difficult to control the size of the dispersed particles.
2. The condensation method is a more controlled method for preparing colloidal solutions. However, it can be more time-consuming than the dispersion method.
3. Peptization is a versatile method for preparing colloidal solutions. It can be used

Colloidal Chemistry And Solutions Tutorial

Jan Theodoor Gerard Overbeek



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