

NCERT/CBSE PHYSICS CLASS 11 textbook

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Solutions/Answers to NCERT/CBSE CHEMISTRY Class 12 (Class XII) textbook

CHAPTER FIVE

SURFACE CHEMISTRY

5.14

How are colloids classified on the basis of

- (i) physical states of components
- (ii) nature of dispersion medium and
- (iii) interaction between dispersed phase and dispersion medium?

(1) Based on the physical states of dispersed phase and dispersion medium.:-

Depending on whether the Dispersed phase and dispersion medium is solid, liquid, or gas, eight types of colloidal systems are possible.

S.No	Dispersed Phase	Dispersion medium	Name	Examples.
1	Solid	Solid	Solid sol	Gem stones
2	Solid	Liquid	sol	Muddy water
3	Solid	Gas	Aerosol	Smoke
4	Liquid	Solid	Gel	Butter
5	Liquid	Liquid	Emulsion	Milk
6	Liquid	Gas	Aerosol	Fog
7	Gas	Solid	Solid foam	Foam rubber
8	Gas	Liquid	Foam	froth

(2) Based on the nature of interaction between dispersed phase and dispersion medium :-

On this basis, colloidal solutions are classified into two types: Lyophilic and lyophobic. If water is the dispersion medium, the terms used are Hydrophilic and Hydrophobic colloids.

(3) Based on the type of particles of the dispersed phase:-

Depending upon the size of the colloidal particles, there are three types of colloids: (1) Multimolecular colloids (2) Macromolecular colloids (3) Associated colloids.

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