

* Surface film :- The surface layer of a liquid with thickness equal to the range of intermolecular force.

* free surface of a liquid :- It is the surface of a fluid which does not experience any shear stress.

Physics

Intermolecular force - The force of attraction between two molecules.

There are two types

Cohesive force - The force of attraction between the molecules of the same substance is called cohesive force.

e.g - force of attraction between two water molecules.

The cohesive force is strongest in solids and weakest in gases.

Reasons: - The solids have shape and gases do not.

Adhesive force - The force of attraction between the molecules of different substance is called adhesive force.

e.g - The force of attraction between glass and water.

Range of molecular force - The maximum distance from a molecule up to which the molecular force is effective is range of molecular force.

Sphere of influence - An imaginary sphere with a molecule at its center and radius equal to the molecular range.