

Dancing of small pieces of camphor on the surface of water is due to:

1. viscosity
2. surface tension
3. weight
4. lifting force

The rise of a Liquid in a capillary tube is due to

1. Viscosity
2. Osmosis
3. Diffusion
4. Surface Tension

Which type of fluids have zero surface tension?

1. Real fluids
2. Ideal fluids
3. Both ideal and real fluids
4. No fluids have zero surface tension

Rain drops are spherical because of

1. viscosity
2. air resistance
3. surface tension forces
4. atmospheric pressure

Unit of surface tension is

1. Dyne cm
2. Dyne cm⁻¹
3. Dyne cm⁻²
4. None of these

Surface tension of water can be reduced by

1. dissolving common salt in water
2. decreasing the temperature of water
3. adding detergent to water
4. All of the above

Which of the following is a necessary condition for capillary action to take place in a narrow tube kept in a liquid?

1. Adhesive forces must be greater than the cohesive forces
2. Fluid pressure must be zero
3. The surface where capillary action take place should have a thin membrane
4. All of the above

Choose the wrong statement from the following.

1. Small droplets of a liquid are spherical due to surface tension
2. Oil rises through the wick due to capillarity
3. In drinking the cold drinks through a straw, we use the phenomenon of capillarity
4. None of these

Surface tension of a liquid:

1. increases with area
2. decreases with area
3. increases with the increases in temperature
4. decreases with the increases in temperature

Water rises in plant fibers due to

1. Osmosis
2. Fluid pressure
3. Viscosity
4. Capillarity

Surface tension is due to :

1. cohesive molecular forces
2. gravitational forces
3. nuclear forces
4. electrical forces

When impurities like detergent is added in water, its surface tension will _____

1. Increase
2. Decrease
3. Remain same
4. Lightly effect