

- Explain the effect of presence of impurities on surface tension of a liquid.

### Effect of impurities on surface tension,

The effect of impurities on surface tension of liquid can be either due to,

(i) soluble impurities.

(ii) Insoluble impurities.

#### (1) Effect of soluble impurities :-

when soluble substance such as common salt (i.e. sodium chloride) is dissolved in water, the surface tension of water increases.

#### (2) Effect of partly soluble impurities :-

when a sparingly soluble substance such as phenol or a detergent is mixed with water, surface tension of water decreases.

#### (3) Effect of insoluble impurities :-

when insoluble impurity is added into water, surface tension of water decreases.