

Exemplar problem 4

How does the surface tension of a liquid vary with increase in temperature?

- (i) Remains same
- (ii) Decreases
- (iii) Increases
- (iv) No regular pattern is followed

(ii) Decrease

The strength of surface tension depends on intermolecular forces. As temperature increases, molecules of liquid become more active and they move more rapidly; therefore, the intermolecular forces are more instable. **Surface tension decreases with increasing temperature.**