

Exemplar problem 3

Increase in kinetic energy can overcome intermolecular forces of attraction. How will the viscosity of liquid be affected by the increase in temperature?



- (i) Increase
- (ii) No effect
- (iii) Decrease
- (iv) No regular pattern will be followed

Answer:

(iii) decrease

When a liquid is heated, the kinetic energy of its molecules increases and the intermolecular attraction becomes weaker. Hence, **the viscosity of a liquid decreases** with increase in its temperature.