

UNSOLVED QUESTION

- In which of the following cases law of mass conservation is not obeyed and why?
(i) Physical changes (ii) Chemical changes (iii) Nuclear changes
- A solution of silver nitrate containing 1.70g is mixed with sodium chloride solution, containing 0.585g, when a white ppt. of silver chloride is formed along with sodium nitrate. If the mass of sodium nitrate formed is 0.85g, what is the mass of silver chloride formed.
Fill in the blank spaces with the appropriate words given within the brackets.
- The state of matter, which has definite shape and definite _____ (volume/area) is called solid.
- The change a of solid into liquid state at a fixed temperature is called _____ (fusion/condensation).
- The process by which a liquid rapidly changes into gaseous state is called _____ (boiling/evaporation).
- The gaseous state directly formed from a solid on heating is called _____ (sublimate/sublime).
- The boiling point of a liquid _____ (increases/decreases) with the decrease in pressure.
- State five postulates of the kinetic theory of matter.
- What do you understand by the term solid?
- Why do solids have a definite shape and definite volume? Explain on the basis of kinetic theory of matter.
- (a) What do you understand by the term gas?
(b) State four characteristics of a gas.
(c) Why are gases highly compressible? Explain on the basis of kinetic model.
(d) Why do the gases easily diffuse in one another? Explain on the basis of the kinetic model
- Define the following terms:
(i) Fusion (ii) Solidification (iii) Melting point
(iv) Freezing point (v) Vaporisation (vi) Liquefaction
(vii) Boiling point (viii) Condensation point (ix) Evaporation
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15. Match the statements in Column A, with the statements in Column B.

Column A	Column B
(a) The temperature at which a liquid rapidly changes into gaseous state.	Vapour
(b) The phenomenon due to which a solid directly changes into gaseous state on heating	Gas
(c) The gaseous state of matter, below the boiling point of a liquid.	Boiling point
(d) The energy of motion of the molecules of matter.	Sublimation
(e) A state of matter which has neither definite shape nor definite volume	Kinetic energy