

How
30.9.21

chemistry

Homework

Questions

1. Explain how gases can be liquefied?
2. What is sublimation? Give examples.
3. Give reasons (a) Liquid and gases flow but solids do not? (b) Why is an egg kicked out of a bottle when air is blown inside the bottle? (c) The odour of scents spreads in a room. (d) We can walk through air. (e) Liquids have a definite volume but no ~~defi~~ definite shape. (f) When a teaspoon of sugar is

added to half a glass of water and stirred the water level in the glass remains unchanged. g) When an empty gas jar is ~~inverted~~ ~~inverted~~ inverted over a gas jar containing a coloured gas the gas also spreads into the empty jar. h) A red ink drop added to small amount of water in a glass turns the water red in some time.

Answers

1. Gases can be liquified by the help of the method. The method is known as condensation.
2. The conversion of solid to vapour without

Undergoing liquid state on heating is called sublimation. Example, camphor.

3(a) Liquids and gases flow because they are not dense and they have their freedom. They can move around. They have only one free surface so they flow.

(b) It is kicked out because when we blow there is high pressure inside the bottle ~~through~~ it creates pressure inside and the egg gets kicked out.

(c) The scents odour is a gas. That happens because gases diffuse very fast.

(d) We can walk through air because the pressure of air is not enough to hold us.

(e) Yes, because they are having molecules that are not having a strong intermolecular force so that's why they are not definite shape.

(f) Yes because the sugar particle fit in between the ~~water~~ water particles. so there is no change in the amount.

(g) Yes, because gas diffuse very fast.

(h) It is because they are miscible liquids.