

Q.10
6.10.21

Q. How sodium chloride different from its constituent elements, sodium and chlorine in its properties? Justify.

ans Sodium is a metal which is stored in kerosene as its reacts very fast with air and water. And

chlorine is a poisonous ~~liquid~~^{gas} chemical, which is yellow and green in color. When these two chemical mixed chemically they form sodium chloride which is commonly known as common salt which is colourless in colour and we add in our food to get taste.

2. Name the elements which form water. State three characteristics of water to justify that it is a compound.

ans - The elements which form water are - 1- hydrogen (H) and Oxygen (O). When the ~~mix~~^{are mix} chemically they form water.

Three characteristics of water are :-

- i) The water cannot be separated into its constituents hydrogen and oxygen by physical methods.
- ii) The element hydrogen (H) ~~is~~^{is} combustible while oxygen ~~is~~^{is} helps in combustion but ~~the~~^{the} water (H₂O) is completely different it neither help is combustion nor it is combustible.
- iii) ~~Energy~~^{Energy} Heat and light are produced when hydrogen and oxygen burn together and chemically combine to form water.

So, these are the characteristics of water which

prove that water is a compound.

3. What do you mean by electrolysis?
ans Electrolysis is a chemical process in which electric current is passed through a compound in liquid state to separate its constituent elements.

1. Mention 3 gaseous elements and write their molecular formulae.

ans- 3 gaseous elements and their molecular formulae are.

- i) Oxygen - O_2
- ii) Hydrogen - H_2
- iii) Nitrogen - N_2

5. Metals are ductile and malleable. What do you understand by this ~~to~~ statement?

ans. 1) Metals are ductile means they can be drawn or stretched into thin wires.

2) Metals are malleable means they can be beaten into thin sheets except Zinc.

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