

Swarit Nath GB

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Chemistry homework

1. How is sodium chloride different from its constituent elements, sodium and chlorine in its elements?

Ans - Sodium is a soft, highly reactive metal. Chlorine is a poisonous non-metallic gas while sodium chloride is a very useful non-metallic gas while sodium chloride is a very useful non-poisonous compound added to food to get minerals.

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

Ans - Elements that form water hydrogen and oxygen.

- Water is made up of hydrogen and oxygen in a definite proportion by mass.
- The properties of water are completely different from those of its elements.
- Water is represented ~~by~~ by a molecular formula H_2O .

3. What do you mean by electrolysis?

Ans = Water molecule cannot be broken into its elements hydrogen and oxygen through any simple physical method. So, electrolysis is a chemical process in which components of water can be separated.

4. Mention three gaseous element and their molecular element.

Ans = Boron - B_2O
Silicon - SiO_2
Antimony - Sb

5. Metals are ductile and malleable, what do you understand by this statement?

Ans - Metals are ductile means ~~that~~ they can be drawn or stretched into wires.

Metals are malleable means they can be beaten into sheets.