

HW

Exercise-1

3) Define a pure substance. Name the types of pure substances you know.

Ans A substance of a definite composition which has consistent properties throughout, is called a pure substance.

Types of pure substance -

- a) elements
- b) compounds

5) Give two examples for each of the following.

a) Metals - Iron, Copper

- b) Non Metals - Carbon, Hydrogen
- c) Metalloids - Boron, Silicon
- d) Noble Gases - Helium, Neon

6) 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:-

a) Hydrogen

b) Oxygen

Water has entirely different properties (it is a liquid extinguishes fire) from the elements it is made up of that is hydrogen a gas catches fire while oxygen as a gas supporter of combustion.

→ Energy is needed to form water on combining O_2 with H_2 .

→ We cannot separate the constituents of water by simple physical means.

7) Give three differences between metals and non-metals.

Ans

Metals

Non-Metals

① Metals are ductile i.e. can be drawn into wires.

① Non-metals are mostly soft solids, cannot be drawn into wires.

② Metals are malleable i.e. can be beaten to form sheets.

② They are mostly gases and are not malleable.

③ They are sonorous

③ They don't produce sound when struck.