

CW-29-F-21



HW

A. Characteristics of pure substances

- > Pure substances have a perfectly homogeneous nature.
- > Pure substances are made up of only one type of atoms (elements) or molecules (compounds).
- > Pure substances have a fixed composition.
- > Pure substances have a fixed density, melting point, boiling point, physical and chemical properties.

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Elements. Elements

(b) There are millions of substances in the world. But they are all made up of a limited number of basic substances. These basic substances are called 'elements'.

Ex - Oxygen, hydrogen, nitrogen, carbon, copper, silver, gold, iron, tin and zinc.

Compounds

Compounds are pure substances formed by the chemical combination of two or more elements in a definite proportion by mass.

Ex - Water, marble, sugar, glucose, carbon dioxide, Zinc, Nitrogen, Zinc chloride

Homogeneous: It is the mixture, in which components are uniformly distributed throughout its volume and cannot be seen separately.

Heterogeneous: It is the mixture, in which the components are not uniformly distributed throughout its volume and can be easily seen separately.