

H.W.

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1. Mention five characteristics of element.

Ans) 5 characteristics of elements are:-

- * An element is a pure substance that cannot be broken down into simpler substance.
- * It is made up of only 1 kind of atom which are identical in all aspects, size, mass, composition etc.

- * It occurs in 3 states of matter - solid, element, liquid element and gaseous element.
- * Each element is represented by a unique symbol.
- * On the basis of physical properties, they have been divided into metals, non-metals and metalloids.

Q. Why carbon dioxide is a compound whereas carbon is an element?

Ans) Carbon is an element and carbon dioxide constitutes of carbon and oxygen which are both independent elements combined together in a fixed ratio to form carbon dioxide. Carbon dioxide (CO_2) has a formula and properties of CO_2 to extinguish fire etc. are quite different from the properties of its constituents carbon and oxygen. Carbon is combustible and oxygen supports combustion, but carbon dioxide extinguishes fire.