

1. Mention five characteristics of Element;

Ans - They are homogenous in nature

-> They can be represented symbolically

-> They have a definite shape

-> It can't be broken into more simpler form,

-> It occurs in 3 states of matter.

Solid - Fe, S, Zn, C.

Liquid - BC_2 , Hg.

Gas - N_2 , O_2

2. Why Carbon Dioxide is a compound whereas Carbon is an element?

Ans - Carbon is an element as it stands alone in its standardised form. But in the case of carbon dioxide, since it is made up of two different elements with two different properties, the product to form, is a compound with its own set of properties that is quite different from those of parent reactants.