

* Mention 5 characteristics of matter:

1) They are homogeneous in nature.

2) They can be represented symbolically. (Phosphorus - P, Iron - Fe, Zinc - Zn...)

3) They have a definite melting point and boiling point.

4) They remain in atomic / molecular form.

5) Depending upon their metallic character they can be categorized into metallic, non-metallic and metalloids.

* Why carbon Dioxide is a compound whereas carbon is an element?

→ Carbon is an element as it stands alone in its standardised form, but in case of CO_2 , since its made up two different elements with two different properties, the product to form is a compound with its own set of properties that

is a compound with its own
set of properties that is quite
different from those of parent
reactants.