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Chemistry

1. Give five differences between elements and compounds.

Compounds

Elements

→ A compound contains atoms of different elements chemically combined together in a fixed ratio.

An element is a pure chemical substance made of same type of atoms.

→ Compounds contain different elements in a fixed ratio.

Elements contain only type of atom.

→ Compound can be separated into simpler substances by chemical reaction.

Elements cannot be broken down into simpler substances by chemical reaction.

→ compound is represented using its chemical formula. Element is represented using symbols.

→ Ex: Water, Sodium chloride etc. Ex: Hydrogen, oxygen, sodium etc.

2. The constituents of compounds can't be separated by physical means only by certain chemical means. Justify your statement.

→ Compounds can not be separated by physical processes but they can be separated into their elements by chemical processes. This is because compounds are chemically combined hence they can only be split into chemical means.