

## CONCEPT – 01 : Isomerism

### TOPIC – 01 : What is Isomerism and its types ?

#### Definition :

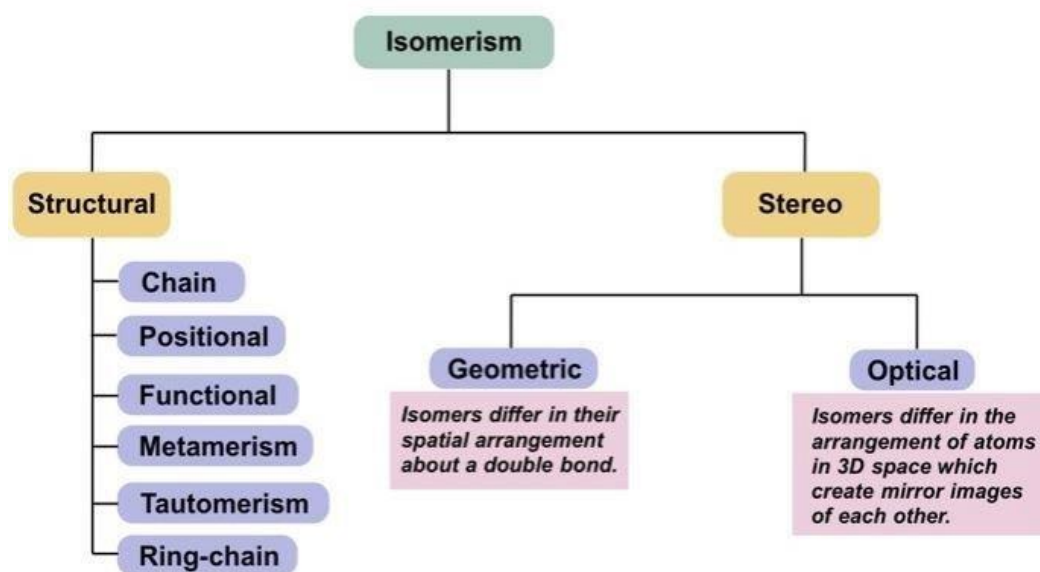
Isomerism is the phenomenon in which more than one compounds have the same chemical formula but different chemical structures.

Chemical compounds that have identical chemical formulae but differ in properties and the arrangement of atoms in the molecule are called **Isomers**. Therefore, the compounds that exhibit isomerism are known as isomers.

The word “isomer” is derived from the Greek words “isos” and “meros”, which mean “equal parts”. This term was coined by the Swedish chemist Jacob Berzelius in the year 1830.

#### Isomerism Types :

There are two primary types of isomerism, which can be further categorized into different subtypes. These primary types are **Structural Isomerism** and **Stereoisomerism**. The classification of different types of isomers is illustrated below.



### Classification of Isomerism