

• TYPES OF ISOMERISM IN ORGANIC CHEMISTRY •

A GUIDE TO THE FIVE MAIN TYPES OF ISOMERISM THAT CAN BE EXHIBITED BY ORGANIC COMPOUNDS

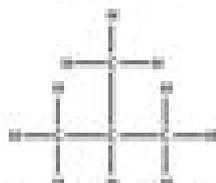
AN ISOMER OF A MOLECULE IS A MOLECULE WITH THE SAME MOLECULAR FORMULA BUT A DIFFERENT STRUCTURAL OR SPATIAL ARRANGEMENT OF ATOMS. THIS VARIATION CAN LEAD TO A DIFFERENCE IN PHYSICAL OR CHEMICAL PROPERTIES.

STRUCTURAL ISOMERISM

CHAIN



BUTANE

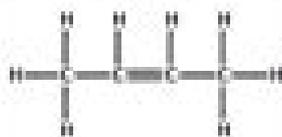


2-METHYLPROPANE

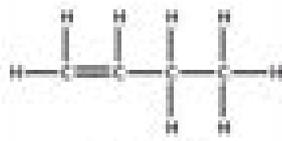
DIFFERENT ARRANGEMENT OF A MOLECULE'S CARBON SKELETON

The positions of the carbon atoms in the molecule can be rearranged to give 'branched' carbon chains coming off the main chain. The name of the molecule changes to reflect this, but the molecular formula is still the same.

POSITION



BUT-2-ENE



BUT-1-ENE

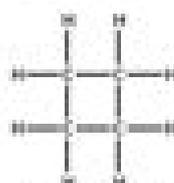
THE DIFFERING POSITION OF THE SAME FUNCTIONAL GROUP IN THE MOLECULE

The molecular formula remains the same, the type of functional group also remains the same, but its position in the molecule changes. The name of the molecule changes to reflect the new position of the functional group.

FUNCTIONAL



BUT-2-ENE



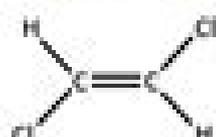
CYCLOBUTANE

DIFFERING POSITIONS OF ATOMS GIVE A DIFFERENT FUNCTIONAL GROUP

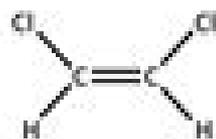
Also referred to as functional group isomerism, these isomers have the same molecular formula but the atoms are rearranged to give a different functional group. The name of the molecule changes to reflect the new functional group.

STEREISOMERISM

GEOMETRIC



(E)-1,2-DICHLOROETHENE
E = opposite side



(Z)-1,2-DICHLOROETHENE
Z = same side

DIFFERENT SUBSTITUENTS AROUND A BOND WITH RESTRICTED ROTATION

Commonly exhibited by alkenes, the presence of two different substituents on both carbon atoms at either end of the double bond can give rise to two different, non-superimposable isomers due to the restricted rotation of the bond.

OPTICAL



L: (S)-1-CHLOROETHANOL
R: (R)-1-CHLOROETHANOL



NON-SUPERIMPOSABLE MIRROR IMAGES OF THE SAME MOLECULE

Optical isomers differ by the placement of different substituents, around one or more atoms in a molecule. Different arrangements of these substituents can be impossible to superimpose - these are optical isomers.

Isomerism In Organic Compounds

N Colangelo



Isomerism In Organic Compounds:

Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Isomerism In Organic Compounds**

In a world inundated with monitors and the cacophony of instantaneous connection, the profound power and emotional resonance of verbal art frequently diminish into obscurity, eclipsed by the regular barrage of sound and distractions. Yet, situated within the lyrical pages of **Isomerism In Organic Compounds**, a fascinating function of fictional splendor that pulses with fresh feelings, lies an wonderful trip waiting to be embarked upon. Penned with a virtuoso wordsmith, this exciting opus instructions viewers on a psychological odyssey, softly revealing the latent possible and profound influence stuck within the delicate web of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is main subjects, dissect their interesting writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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