Isomer Types

Isomers: Compounds that have the same molecular formula, but different arrangment of atoms in space

(Assume the compounds being compared are not identical.)

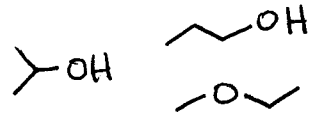
Do the compounds have same molecular formula?

NO → Not isomers

YES → Isomers

Do the compounds have the same atom-to-atom connection?

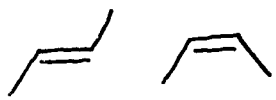
NO → Constitutional (Structural)



YES → Stereoisomers

Is the isomerism at a double bond?

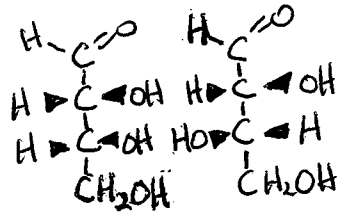
YES → Cis/Trans (Geometric)



NO → Optical

Are the compounds non-superimposable mirror images (chiral)?

NO → Diastereomers



YES → Enantiomers