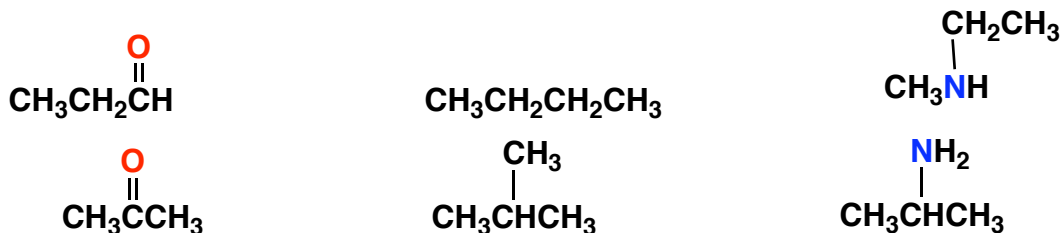


# ISOMERS

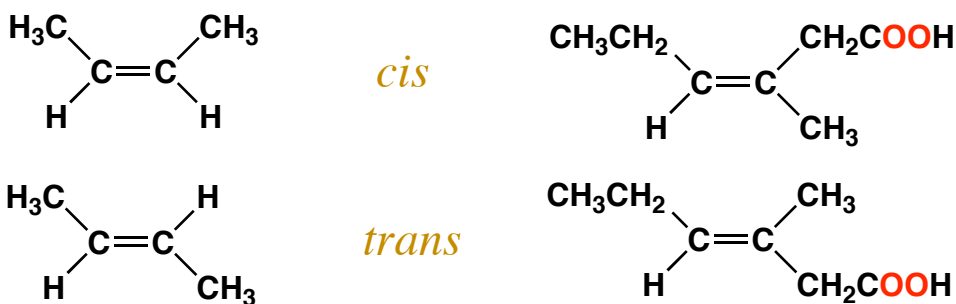
## Structural isomers

all compounds with the same molecular formula



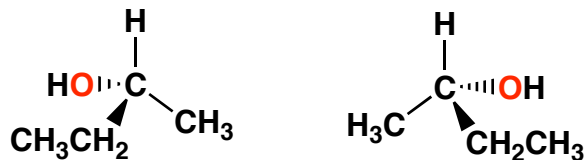
## Geometric isomers

molecules containing a C C double bond with 2 different groups on each of those carbons will have a **cis or trans** arrangement



## Optical isomers

any carbon in a molecule with 4 different groups bonded to it is called a **chiral carbon** and will have 2 mirror image arrangements of those four groups



non-superimposable mirror images