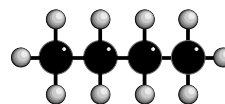


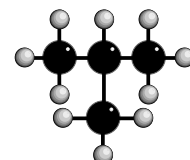
STRUCTURAL ISOMERISM

Definition When compounds having the SAME MOLECULAR FORMULA but DIFFERENT STRUCTURAL FORMULA

- Chain**
- different arrangements of the carbon skeleton
 - similar chemical properties
 - slightly different physical properties
 - more branching = lower boiling point

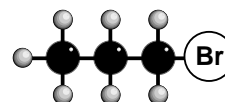


butane

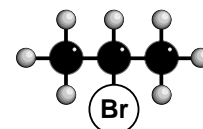


2-methylpropane

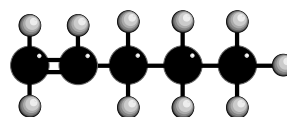
- Positional**
- same carbon skeleton
 - same functional group
 - functional group is in a different position
 - similar properties



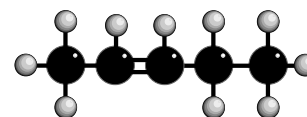
1-bromopropane



2-bromopropane



pent-1-ene



pent-2-ene

Functional Group

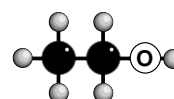
- different functional group
- different chemical properties
- different physical properties

- Examples

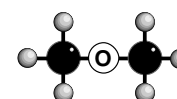
ALCOHOLS - ETHERS

ALDEHYDES - KETONES

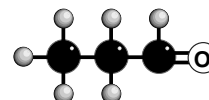
CARBOXYLIC ACIDS - ESTERS



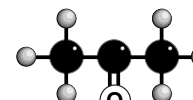
ethanol
ALCOHOL



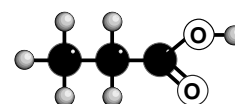
methoxymethane
ETHER



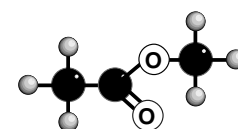
propanal
ALDEHYDE



propanone
KETONE



propanoic acid
CARBOXYLIC ACID



methyl ethanoate
ESTER