

Isomers

Compounds with the
same molecular
formula

*Different
connectivity*

*Same
connectivity*

Constitutional
isomers

*Different
arrangement
in space*

*Rotation about
a single bond*

Stereoisomers
& Geometric
Isomers

Conformations

*Restricted
rotation*

Conformational
isomers

*One
stereogenic center*

*Two or more
stereogenic centers*

Enantiomers

*All stereogenic centers
reversed*

*Some stereogenic centers
reversed*

Superposable

Non-superposable

Meso
compound

Enantiomers

Diastereomers
(includes optically
active compounds and
cis/trans isomers)