Isomer Flow Diagram

Isomers – compounds that have the same molecular formula

Do the given isomers differ in connectivity of

Yes

Constitutional isomers
(differ in connectivity)

No

Stereoisomers
(differ in arrangement in space, not in connectivity)

Can the isomers be interconverted simply by rotation about a σ-bond?

(Chapter 4) Yes

Conformational isomers
(differ only by rotation about σ bonds)

No

Configurational isomers
(differ in arrangement of atoms in space but cannot be converted to one another by rotation about σ bonds)

(Chapter 9)

enantiomers
(nonsuperimposable mirror images)

diastereomers
(nonsuperimposable but not mirror images)