

Isomer Classification

Comparing two molecules

Do they have the same *formula* ?

NO

non-isomeric compounds

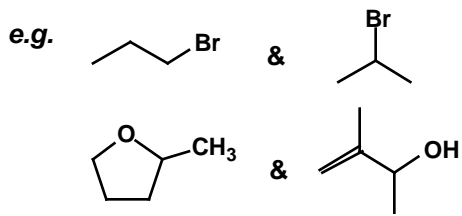
YES

ISOMERS

Do they have the same *connectivity*?

NO

CONSTITUTIONAL ISOMERS
(structural isomers)



YES

STEREOMISOMERS

Can the structures be interconverted by rotation around σ -bonds ?

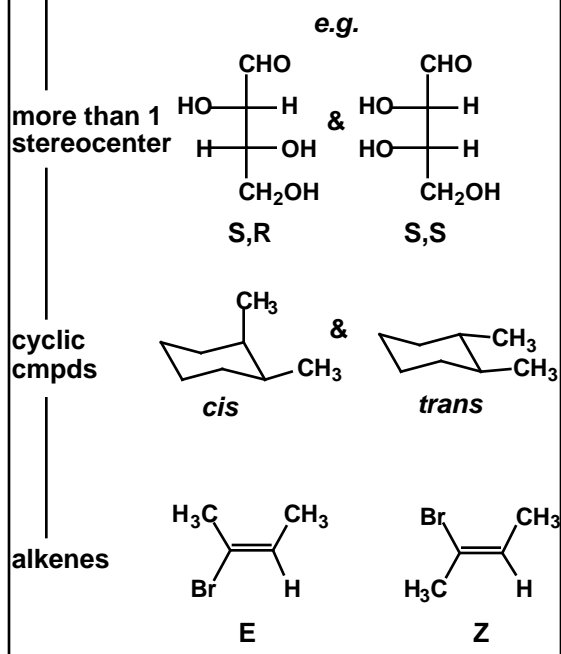
NO

CONFIGURATIONAL ISOMERS

Are they nonsuperimposable mirror images of each other ?

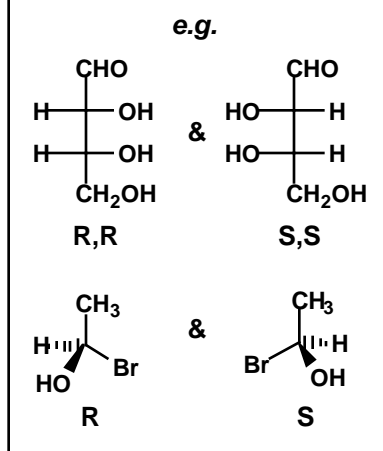
NO

DIASTEREOMERS



YES

ENANTIOMERS



YES

CONFORMATIONAL ISOMERS

