

Organic Isomerism

same *molecular formula* but *different structural formula*
(atoms are bonded in a *different order*)

same *molecular formula* and same *structural formula* but atoms are *directed into different regions of space*

structural isomerism

stereoisomerism

Some examples of pairs of isomers are given below. There is also a blank copy of this sheet for you to make your own.

Positional

&

functional group changed position on the chain

Chain

&

the carbon chain/skeleton was changed

Functional Group

&

each isomer has a different functional group

E/Z (and possibly *cis/trans*)

&

each carbon of the C=C has 2 different groups attached

Optical

&

non-superimposable mirror image of its isomer