

NAMING ALKANES AND ALKENES

Find the longest continuous chain of carbons and use that **alkane (or alkene) name** as the parent.

If the longest chain is a **ring**, use the prefix **cyclo** in front of the name.

For alkenes, if the double bond can be located in more than one location, you must **indicate where the bond** is by the number. **Structural Isomers**

The number is the **carbon with the lowest number** from one end of parent chain.

If both carbons in the double bond have two different groups attached to them, you must indicate **cis** or **trans**.

Geometric isomers

Next, in front of the parent name, list the carbon branches (and functional groups) attached to the parent.

If more than one of any branch, use prefix in front of that name.

Indicate the number of each branching item. Smallest total numbers are used.