

NAMING ORGANIC COMPOUNDS

SUMMARY OF RULES FOR NAMING ORGANIC COMPOUNDS:

- 1) Find the longest carbon chain which contains the functional group or multiple bond if present and name it (using the correct ending).
- 2) Number the longest chain (left to right or right to left) so that the functional group/multiple bond/longest side chain (branch) is on the lowest numbered carbon possible.
- 3) Name each side group but change the ending to -yl.
- 4) Use a prefix di-, tri-, tetra-, etc. to denote how many side groups of each length are present.
- 5) Before naming the side group give the number of the carbon to which the side group is attached.
- 6) Arrange the side groups in alphabetical order ignoring the prefixes di-,tri-, etc.

ORGANIC FUNCTIONAL GROUPS

NAME	FUNCTIONAL GROUP	ENDING
1) ALCOHOL	$\begin{array}{c} \\ -C-O-H \\ \end{array}$	-ol
2) ALDEHYDE	$\begin{array}{c} H \\ \\ -C=O \end{array}$	-al
3) ACID	$\begin{array}{c} O \\ \\ -C-O-H \end{array}$	-oic acid
4) ETHER	$\begin{array}{c} \\ -C-O-C- \\ \end{array}$	-yl -yl ether
5) KETONE	$\begin{array}{c} O \\ \\ R-C-R \end{array}$	-one