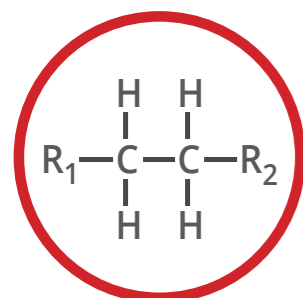


FUNCTIONAL GROUPS IN ORGANIC CHEMISTRY

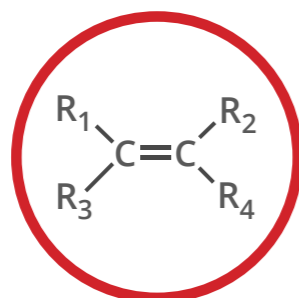
FUNCTIONAL GROUPS ARE GROUPS OF ATOMS IN ORGANIC MOLECULES THAT ARE RESPONSIBLE FOR THE CHARACTERISTIC CHEMICAL REACTIONS OF THOSE MOLECULES. IN THE GENERAL FORMULAE SHOWN BELOW FOR EACH FUNCTIONAL GROUP, 'R' REPRESENTS THE REST OF THE MOLECULE, AND 'X' REPRESENTS ANY HALOGEN ATOM.

● HYDROCARBONS ● SIMPLE OXYGEN HETEROATOMICS ● HALOGEN HETEROATOMICS ● CARBONYL COMPOUNDS ● NITROGEN-BASED ● SULFUR-BASED ● AROMATIC



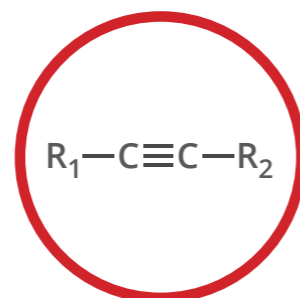
ALKANE

Naming: *-ane*
e.g. ethane



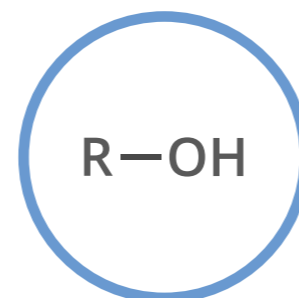
ALKENE

Naming: *-ene*
e.g. ethene



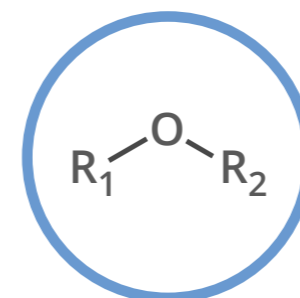
ALKYNE

Naming: *-yne*
e.g. ethyne



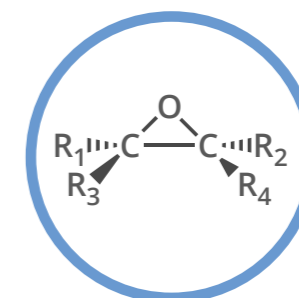
ALCOHOL

Naming: *-ol*
e.g. ethanol



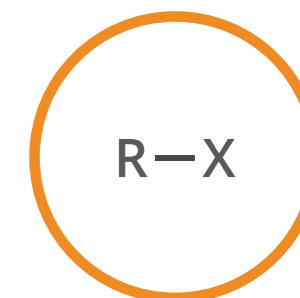
ETHER

Naming: *-oxy -ane*
e.g. methoxyethane



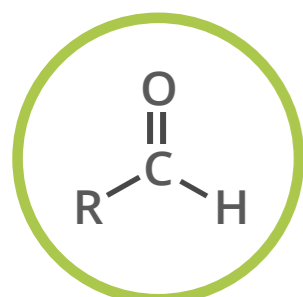
EPOXIDE

Naming: *-ene oxide*
e.g. ethene oxide



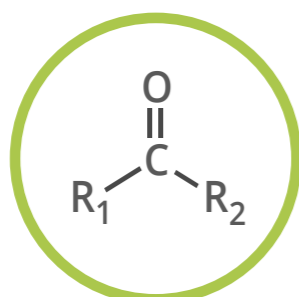
HALOALKANE

Naming: *halo-*
e.g. chloroethane



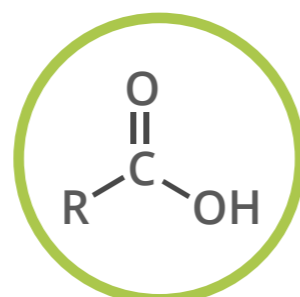
ALDEHYDE

Naming: *-al*
e.g. ethanal



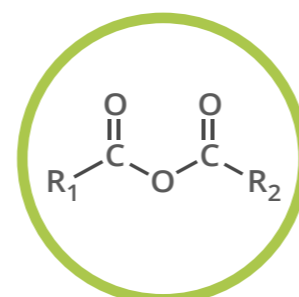
KETONE

Naming: *-one*
e.g. propanone



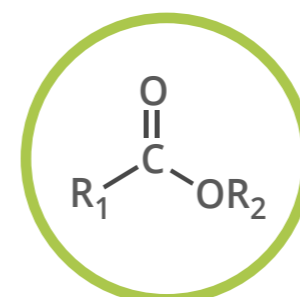
CARBOXYLIC ACID

Naming: *-oic acid*
e.g. ethanoic acid



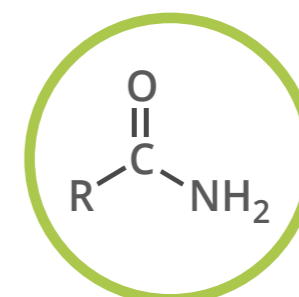
ACID ANHYDRIDE

Naming: *-oic anhydride*
e.g. ethanoic anhydride



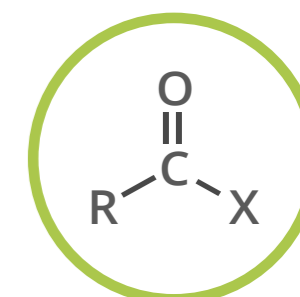
ESTER

Naming: *-yl -oate*
e.g. ethyl ethanoate



AMIDE

Naming: *-amide*
e.g. ethanamide



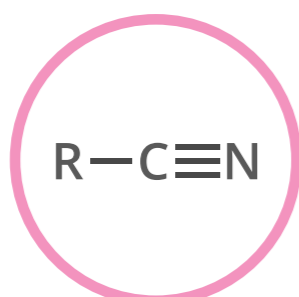
ACYL HALIDE

Naming: *-oyl halide*
e.g. ethanoyl chloride



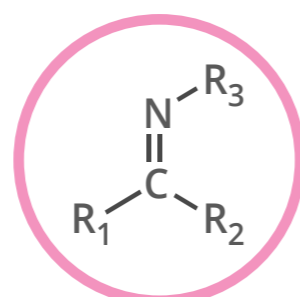
AMINE

Naming: *-amine*
e.g. ethanamine



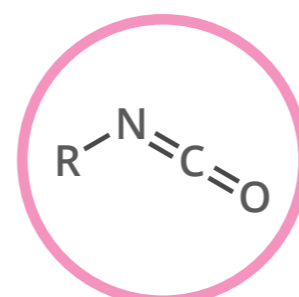
NITRILE

Naming: *-nitrile*
e.g. ethanenitrile



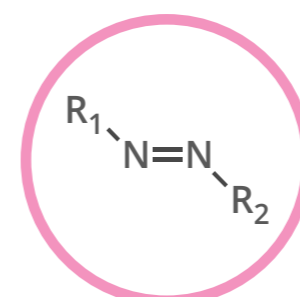
IMINE

Naming: *-imine*
e.g. ethanimine



ISOCYANATE

Naming: *-yl isocyanate*
e.g. ethyl isocyanate



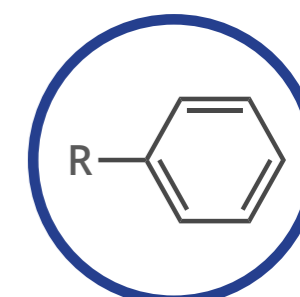
AZO COMPOUND

Naming: *azo-*
e.g. azoethane



THIOL

Naming: *-thiol*
e.g. methanethiol



ARENE

Naming: *-yl benzene*
e.g. ethyl benzene

