

# 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 BELOW, 'R' REPRESENTS A HYDROCARBON GROUP OR HYDROGEN, 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



# Functional Groups Pearson Chemistry Workbook

**Minjie Lin**



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