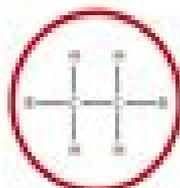# FUNCTIONAL GROUPS IN ORGANIC CHEMISTRY

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: -ol
e.g. ethanol

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

Richard Bailey

Functional Groups:

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Functional Groups**

In a global inundated with screens and the cacophony of quick interaction, the profound energy and mental resonance of verbal beauty often fade in to obscurity, eclipsed by the continuous barrage of noise and distractions. However, nestled within the lyrical pages of **Functional Groups**, a charming function of fictional beauty that impulses with raw thoughts, lies an remarkable journey waiting to be embarked upon. Composed by a virtuoso wordsmith, this exciting opus instructions visitors on a psychological odyssey, softly exposing the latent potential and profound impact embedded within the elaborate web of language. Within the heart-wrenching expanse of the evocative evaluation, we will embark upon an introspective exploration of the book is main subjects, dissect its fascinating writing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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