

# Introduction to Organic Chemistry

# Organic compounds

Carbon based compounds excluding inorganic carbon, carbon monoxide and carbon dioxide

# Source of Organic compounds

From crude oil(petroleum)

Fractional distillation of crude oil produces various factions

Gasoline

Diesel

Kerosene

Bitumen

# Uses for petroleum fractions

Gasoline as petrol for cars

Diesel for diesel oil engines

Kerosene for air planes and house hold fuel

Bitumen for road coverings

# Types of organic compounds

Alkanes

Alkenes

Alcohols

Carboxylic acids

# Homologous series of organic compounds

Organic compounds from homologous series have an additional CH<sub>2</sub> group for an extra carbon added.

They can be represented by a general formula

Alkanes - C<sub>n</sub>H<sub>2n+2</sub>

Alkenes - C<sub>n</sub>H<sub>2n</sub>

Alcohols - C<sub>n</sub>H<sub>2n+1</sub>OH

Carboxylic acids - C<sub>n</sub>H<sub>2n+1</sub>CO<sub>2</sub>H