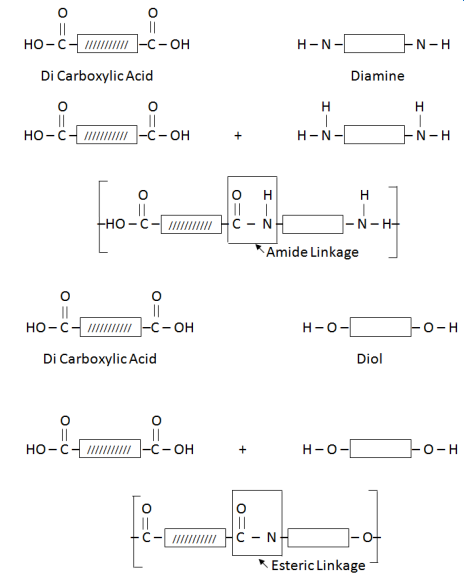


POLYMER

Condensation Polymerisation
(elimination of water)



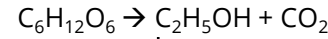
LONG CHAIN ALKANE

H₂ gas
(For Haber process)

Catalytic Cracking
(Al₂O₃ & SiO₂, 600 °C)

Addition Polymerisation
(High temp & pressure)

SUGAR



Fermentation
(37°C, yeast & no O₂)

Hydration
(300 °C & 60-70 atm, Phosphoric(V) acid)

Oxidation
(acidified aqueous potassium manganate(VII) / exposed to air)

ALKANE

C - C

Hydrogenation
(200 °C & nickel)

ALKENE

C = C

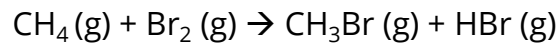
ALCOHOL

-OH

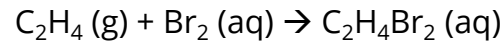
CARBOXYLIC ACID

-COOH

Substitution
(UV light)



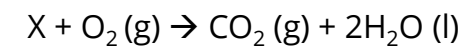
Bromination
(Test for C=C bonds)



Esterification
(warm, sulfuric acid)

ESTER + H₂O
-COO-

ALL ORGANIC COMPOUNDS
Complete Combustion



Incomplete Combustion



Prefix

- Meth- 1
- Eth- 2
- Prop- 3
- But- 4
- Pent- 5
- Hex- 6
- Hep- 7
- Oct- 8
- Non- 9
- Dec- 10

