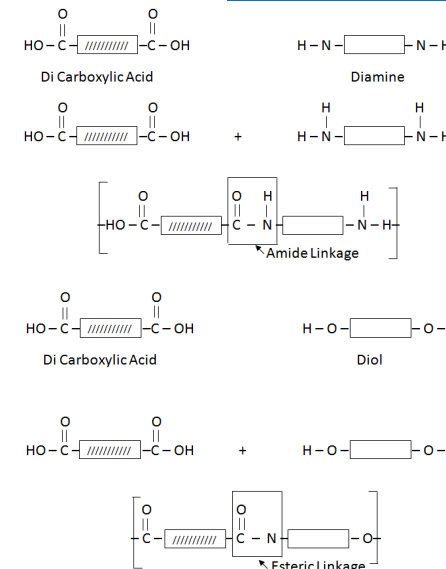


POLYMER

Condensation Polymerisation
(elimination of water)



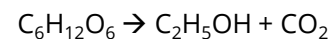
LONG CHAIN ALKANE

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

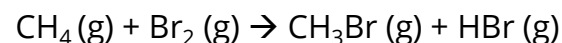
ALCOHOL

-OH

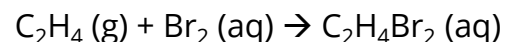
CARBOXYLIC ACID

-COOH

Substitution
(UV light)



Bromination
(Test for C=C bonds)

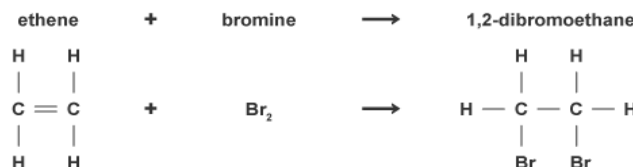


Esterification
(warm, sulfuric acid)

ESTER + H₂O
-COO-

Prefix

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



ALL ORGANIC COMPOUNDS
Complete Combustion



Incomplete Combustion

