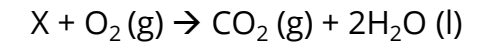


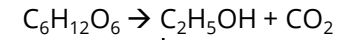
LONG CHAIN ALKANE

SUGAR

**ALL ORGANIC COMPOUNDS
Undergo Combustion**



Incomplete Combustion



Fermentation
(37°C, yeast & no O₂)

**Addition
Polymerisation**
(High temp & pressure)

Catalytic Cracking
(Al₂O₃ & SiO₂, 600 °C)

H₂ gas

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

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

Hydrogenation
(200 °C & nickel)

ALKANE

C - C

ALKENE

C = C

ALCOHOL

-OH

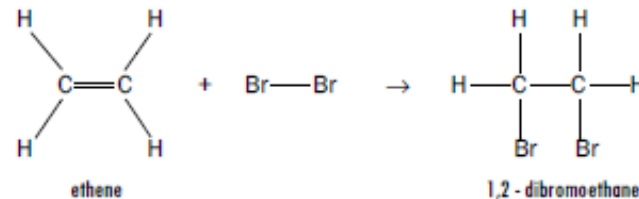
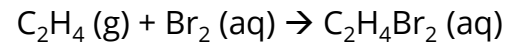
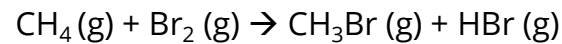
CARBOXYLIC ACID

-COOH

Substitution
(UV light)

Bromination
(Test for C=C bonds)

acid + metal → salt + H₂
acid + carbonate → salt + H₂O + CO₂
acid + base → salt + H₂O



Prefix

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