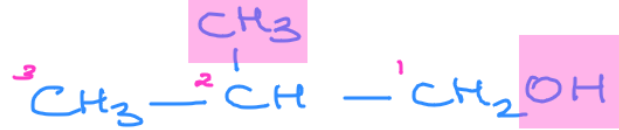
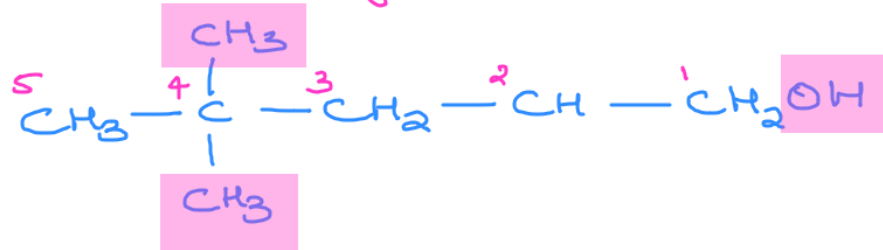




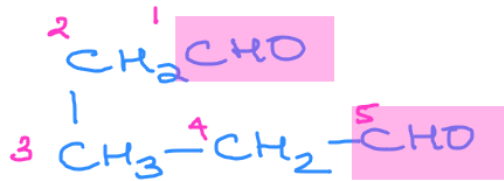
Butan-1-ol



2-methyl propan-1-ol



2-ethyl 4,4-dimethyl pent-1-ol



Pentane-1,5 dial

OH-alcohol

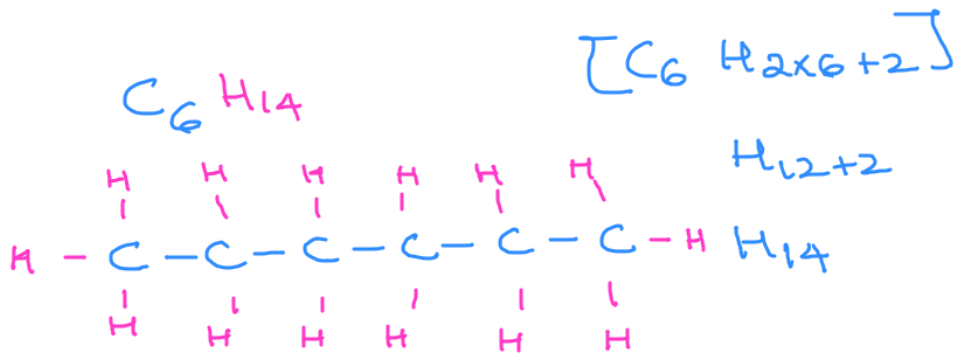
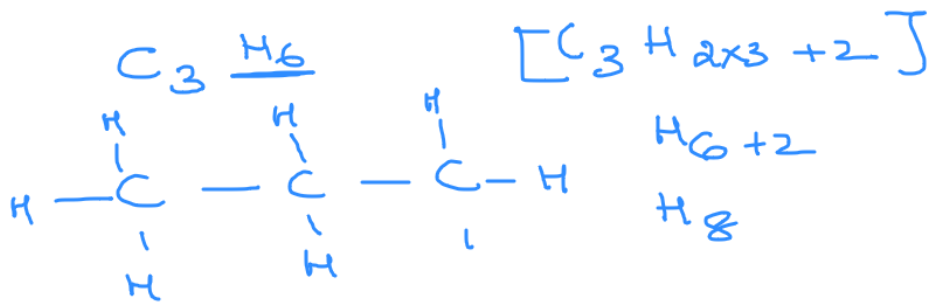


CHO-aldehyde (al)



## Alkanes [Paraffins] — $C_nH_{2n+2}$

n represents the number of carbon atoms.



## Sources of alkanes —

Important source — Petroleum & natural gas.

Petroleum is a complex mixture [Contains many organic compounds, many are

alkanes or cycloalkane]

Natural gas associated with petroleum deposit —

Methane [approx. 80%]

Ethane [5% to 10%]

lesser amount of higher alkanes.

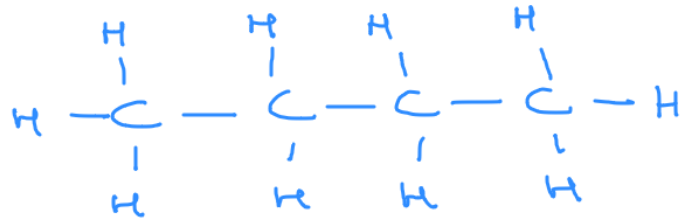
LPG — Liquefied petroleum.

major constituent is propane.

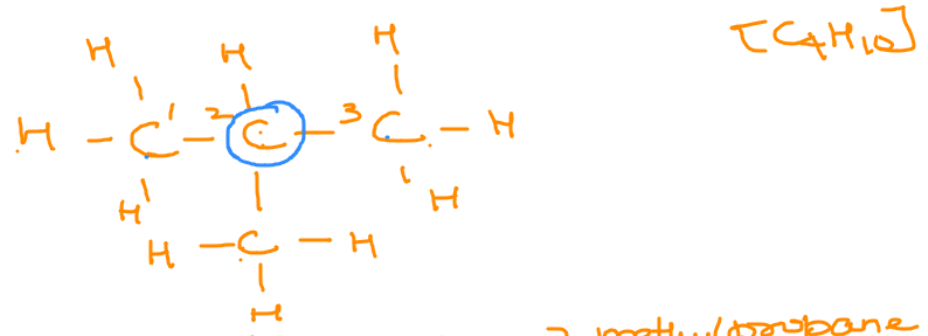
Butane is another choice for domestic use.

### Isomerism

Eg — Butane



$\text{C}_4\text{H}_{10}$



$[\text{C}_4\text{H}_{10}]$

Iso-butane

IUPAC — 2-methylpropane

