

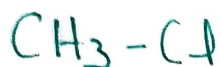
2. Alkyl Halide / Halo Alkane

R-X

Substituent =) F, Cl, Br, I

Common

IUPAC



methyl chloride

Chloro methane



Ethyl bromide

Bromo ethane



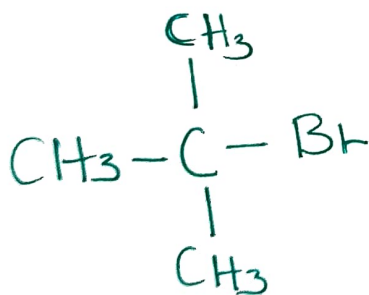
n-propyl iodide

1-Iodopropane



Isopropyl iodide

2-Iodopropane



Tertiary Butyl bromide

2-Bromo-2-methyl ~

propane

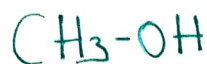
→ Next pg

Alcohol

R-OH
IUPAC
Methanol

FG \Rightarrow -OH

Common
~~Eth~~ Methyl alcohol



Ethanol

Ethyl alcohol



Propan-1-ol

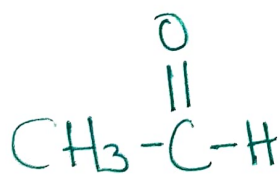
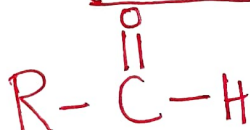
n-Propyl Alcohol



2,2-Dimethyl / Propan-1-ol

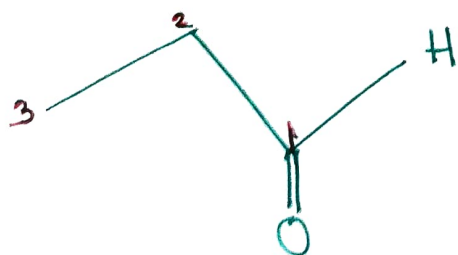
alcohol
Neopentyl ^

Aldehyde

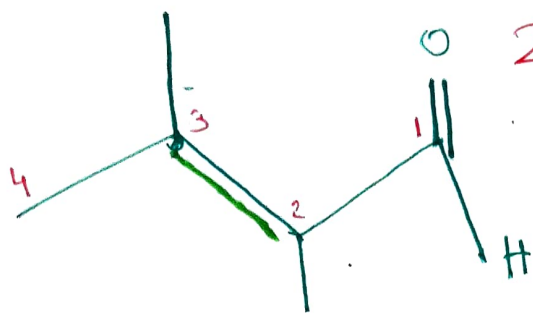


ethanal

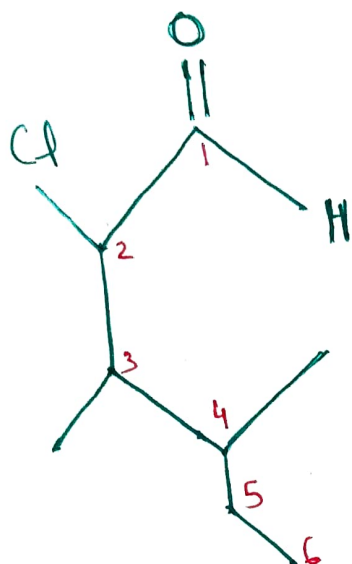
Acetaldehyde



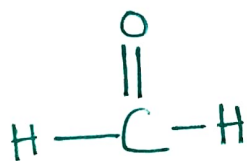
Propanal



2,3-Dimethyl but-2-en-1-al



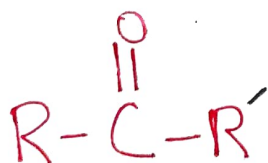
2-chloro-3,4-dimethylhexan-1-al



methanal

formaldehyde

Ketone

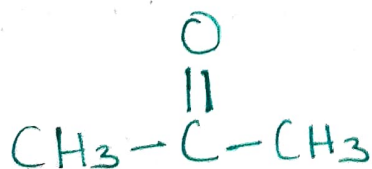


$\text{R} = \text{R}'$

$\text{R} \neq \text{R}'$

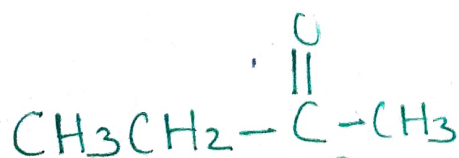
IUPAC

Common



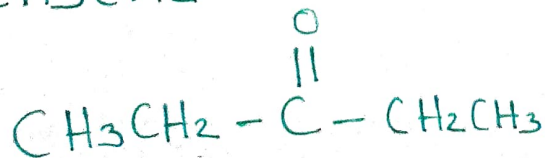
Propanone

Dimethyl ketone/
Acetone



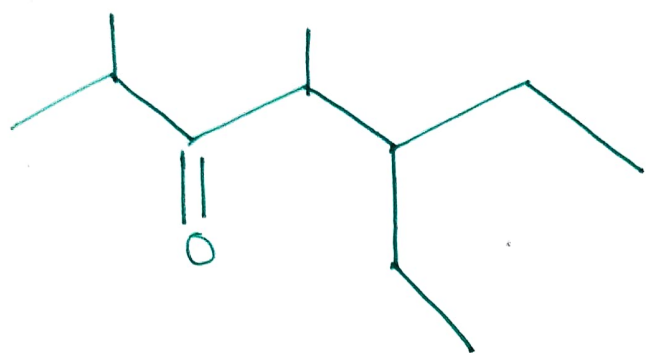
Butan-2-one

Ethylmethyl ketone

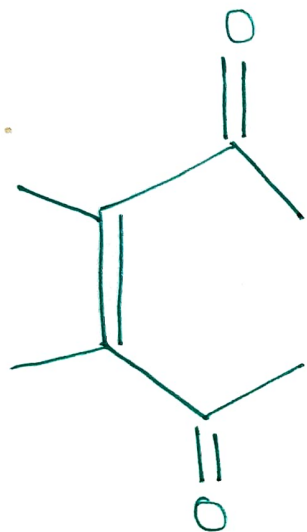


Pentan-3-one

Diethyl ketone

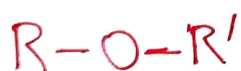


5-Ethyl-2,4-dimethyl heptan-3-one



3,4-Dimethyl hex-3-ene-2,5-dione

Ethers



Common

IUPAC



Dimethyl ether

Methoxy methane



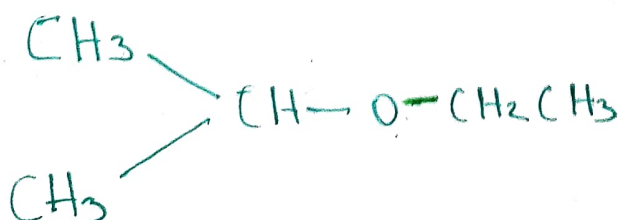
Ethylmethyl ether

Methoxy ethane



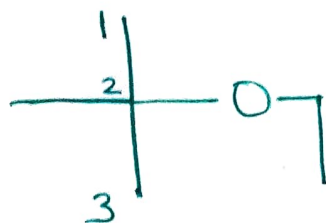
Diethyl ether

1-Ethoxy ethane



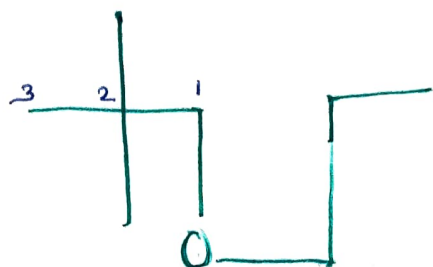
ethyl isobutyl ether

(2)-Ethoxy propane



tert butyl ethyl
ether

2-Ethoxy-2-methyl
propane



Neo pentyl
n-propyl
ether

2,2-Dimethyl-1-propoxy
propane

Cyanides / Nitriles

$R-C\equiv N$

F.G $\Rightarrow -C\equiv N$

IUPAC

Common

CH_3-CN

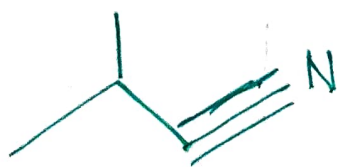
Ethanenitrile

Methyl cyanide

CH_3CH_2-CN

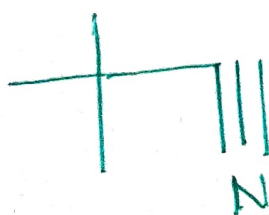
Propanenitrile

Ethyl cyanide



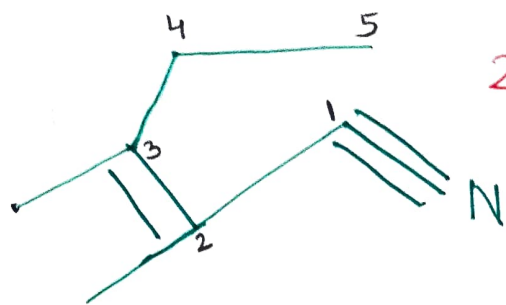
2-Methyl propanenitrile

Isobutyl
cyanide



2,2-Dimethyl propanenitrile

Tert butyl cyanide



2,3-Dimethyl pent-2-ene-1-nitrile

Amines

Common

$R-NH_2$

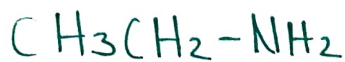
FG $\Rightarrow -NH_2$

IUPAC



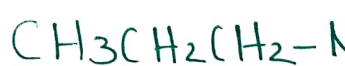
Methylamine

Methanamine



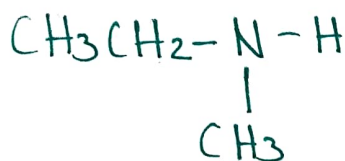
ethylamine

Ethanamine



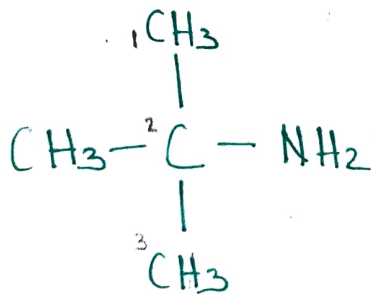
n-Propylamine

Propan-1-amine



ethyl methyl
amine

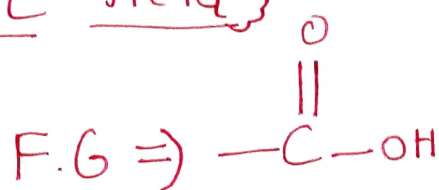
N-Methyl ethanamine



Tert-butylamine

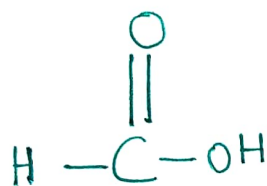
2-Methyl Propan-2-amine

Carboxylic Acid



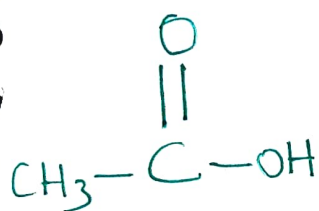
IUPAC

Common



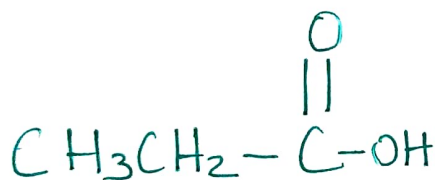
methanoic acid

Formic acid

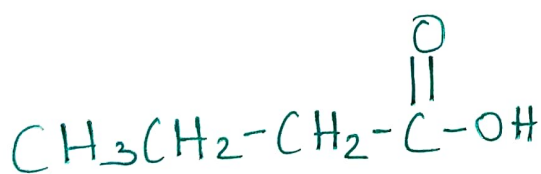


Ethanoic acid

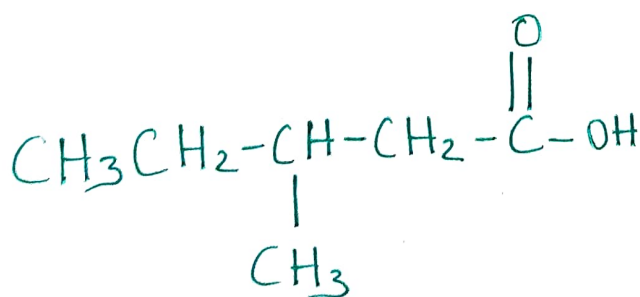
Acetic acid



Propanoic acid



Butanoic acid



3-Methyl pentanoic acid

NOTE: 😊

Formaldehyde aqueous solution is called Formaline which is used as a preservative for biological species.