

S. No.	Compound	General formula	Example	Prefix name	Suffix name
1.	Alkane, or, paraffin, or, Petroleum bearing (-) bond.	$C_n H_{2n+2}$ where $n = +ve$ integer (1, 2, 3, ... etc)	if $n = 2$, then $C_2 H_6$	ane	ane
2.	Alkene, or, olefin, or, oil bearing (=) bond	$C_n H_{2n}$	if $n = 3$, then $C_3 H_6$	ene	ene
3.	Alkyne ($\equiv$) bond	$C_n H_{2n-2}$	if $n = 4$, then $C_4 H_6$	yne	yne
4.	Alkyl group (R)	$C_n H_{2n+1}$	if $n = 3$ then $C_3 H_7$	yl	yl
5.	Alcohol (R-OH)	$C_n H_{2n+1} - OH$	if $n = 2$, then $C_2 H_5 - OH$	Hydroxy	ol.
6.	Mercapto or thiol (R-SH)	$C_n H_{2n+1} - SH$	if $n = 3$, then $C_3 H_7 - SH$	Mercapto	thiol
7.	Aldehyde (R-CHO)	$C_n H_{2n+1} - CHO$	if $n = 2$, then $C_2 H_5 - CHO$	Aldo/ oxo/ formyl	al
8.	Ketone (R-C(=O)-R)	$C_n H_{2n+1} - C(=O) - C_n H_{2n+1}$	if $n = 2$, then $C_2 H_5 - C(=O) - C_2 H_5$	oxo/ keto	one
9.	Alkyl cyanide or, Alkyl nitrile (R-CN)	$C_n H_{2n+1} - C \equiv N$	if $n = 3$ then $C_3 H_7 - C \equiv N$	Cyano	nitrile

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10.	Amine ($R-NH_2$) Primary 1° amine	$C_nH_{2n+1}-NH_2$	if $n=2$, then $C_2H_5-NH_2$	Amino	amine.
11.	$R-NH-R$ H Secondary 2° amine	$C_nH_{2n+1}-N(C_nH_{2n+1})$	if $n=4$, then $C_4H_9-NH-C_4H_9$	Amino	amine.
12.	$R-NR_2$ Tertiary amine 3° amine	$C_nH_{2n+1}-N(C_nH_{2n+1})_2$	if $n=2$, then $C_2H_5-N(C_2H_5)_2$	Amino	amine
13.	Ether ($R-O-R$)	$C_nH_{2n+1}-O-C_nH_{2n+1}$	if $n=1$, then CH_3-O-CH_3	Alkoxy	epoxy.
14.	Acid ($R-C(=O)-OH$)	$C_nH_{2n+1}-C(=O)-OH$	if $n=1$, then $CH_3-C(=O)-OH$	carboxyl	oic acid.
15.	Ester ($R-C(=O)-OR$)	$C_nH_{2n+1}-C(=O)-OR$	if $n=2$, then $C_2H_5-C(=O)-OC_2H_5$	Alkoxy carboxyl	oate
16.	Acid chloride ($R-C(=O)-Cl$)	$C_nH_{2n+1}-C(=O)-Cl$	if $n=2$, then $C_2H_5-C(=O)-Cl$	chlorocarbonyl	oyl chloride