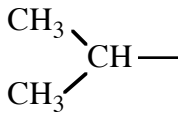
Alkane Names -- The Nomenclature Game

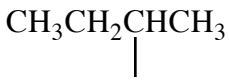
n	Formula	Name	Group Name	Structure	Cyclic Name	Cyclic Structure
1	CH_4	Methane	methyl	CH_4		
2	C_2H_6	Ethane	ethyl	$H_3C—CH_3$		
3	C_3H_8	Propane	propyl	$H_3C—CH_2—CH_3$ **or**	cyclopropane	**or**
4	C_4H_{10}	Butane	butyl		cyclobutane	
5	C_nH_{2n+2}	Pentane	pentyl		cyclopentane	
6		Hexane	hexyl		cyclohexane	
7		Heptane	heptyl		cycloheptane	
8		Octane	octyl		cyclooctane	
9		Nonane	nonyl		cyclononane	
10		Decane	decyl		cyclodecane	
11		Undecane	undecyl			
12		Dodecane	dodecyl			
13		Tridecane	tridecyl			

Common Group Names

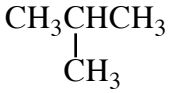
$CH_3CH_2CH_2$- propyl, n-propyl -- n=normal



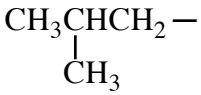
isopropyl-, or 2-propyl-



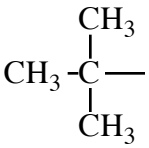
<u>sec</u>-butyl- (secondary butyl)



isobutane



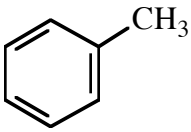
isobutyl



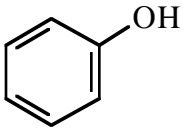
<u>tert</u>-butyl, <u>t</u>-butyl-, (tertiary)

Aromatic Compounds

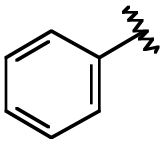
Benzene



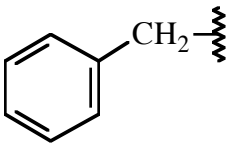
Toluene



Phenol



Phenyl Group



Benzyl Group