

## Lecture 4 – Alkane nomenclature

Alkane	Name	Skeletal Structure	Alkyl Group	Name & Abbrev. (Know the bold names)
CH <sub>4</sub>	<i>n</i> -Methane	.	-CH <sub>3</sub>	<b>Methyl (Me)</b>
CH <sub>3</sub> CH <sub>3</sub>	<i>n</i> -Ethane			<b>Ethyl (Et)</b>
CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	<i>n</i> -Propane			<b>Propyl (Pr)</b>
				<b>Isopropyl (i-Pr)</b>
CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	<i>n</i> -Butane			<b>Butyl (Bu)</b>
				<b>sec-Butyl (s-Bu)</b>
CH <sub>3</sub> CH(CH <sub>3</sub> )CH <sub>3</sub>	Isobutane or 2-methylpropane			<b>Isobutyl (i-Bu)</b>
				<b>tert-Butyl</b>

# Carbons	Prefix	# Carbons	Prefix
1	Meth-	7	Hept-
2	Eth-	8	Oct-
3	Prop-	9	Non-
4	But-	10	Dec-
5	Pent-	11	Undec-
6	Hex-	12	Dodec-