
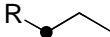


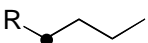


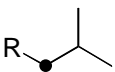


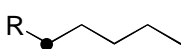
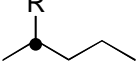
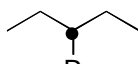
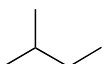
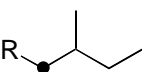
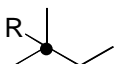
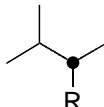
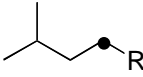




Alkane Isomers & Alkyl Groups for C₁ to C₅

L. Cabana, Spring 1998

C₁	$\begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\text{H} \\ \\ \text{H} \end{array}$ <p>methane</p>	$\begin{array}{c} \text{H} \\ \\ \text{R}-\text{C}-\text{H} \\ \\ \text{H} \end{array}$ <p>methyl</p>			
C₂	$\begin{array}{c} \text{H} \quad \text{H} \\ \quad \\ \text{H}-\text{C}-\text{C}-\text{H} \\ \quad \\ \text{H} \quad \text{H} \end{array}$ <p>ethane</p>	$\begin{array}{c} \text{H} \quad \text{H} \\ \quad \\ \text{R}-\text{C}-\text{C}-\text{H} \\ \quad \\ \text{H} \quad \text{H} \end{array}$ <p>ethyl</p>			
C₃	$\begin{array}{c} \text{H} \quad \text{H} \quad \text{H} \\ \quad \quad \\ \text{H}-\text{C}-\text{C}-\text{C}-\text{H} \\ \quad \quad \\ \text{H} \quad \text{H} \quad \text{H} \end{array}$  <p>propane</p>	$\begin{array}{c} \text{H} \quad \text{H} \quad \text{H} \\ \quad \quad \\ \text{R}-\text{C}-\text{C}-\text{C}-\text{H} \\ \quad \quad \\ \text{H} \quad \text{H} \quad \text{H} \end{array}$  <p><i>n</i>-propyl (propyl)</p>	$\begin{array}{c} \text{H} \quad \text{R} \quad \text{H} \\ \quad \quad \\ \text{H}-\text{C}-\text{C}-\text{C}-\text{H} \\ \quad \quad \\ \text{H} \quad \text{H} \quad \text{H} \end{array}$  <p>1-methylethyl (isopropyl)</p>		
C₄	 <p><i>n</i>-butane</p>	 <p><i>n</i>-butyl (butyl)</p>	 <p>1-methylpropyl (<i>sec</i>-butyl)</p>		
C₄	 <p>2-methylpropane (isobutane)</p>	 <p>2-methylpropyl (isobutyl)</p>	 <p>1,1-dimethylethyl (<i>tert</i>-butyl)</p>		
C₅	 <p><i>n</i>-pentane</p>	 <p><i>n</i>-pentyl (pentyl)</p>	 <p>1-methylbutyl</p>	 <p>2-ethylpropyl</p>	
C₅	 <p>2-methylbutane (isopentane)</p>	 <p>2-methylbutyl</p>	 <p>1,1-dimethylpropyl</p>	 <p>1,2-dimethylpropyl</p>	 <p>3-methylbutyl</p>
C₅	 <p>2,2-dimethylpropane (neopentane)</p>	 <p>2,2-dimethylpropyl (neopentyl)</p>			