Depictions of octane

 C_8H_{18} is molecular formula but there are 18 possible structural isomers

Lewis structure

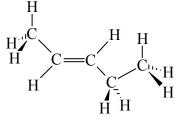
CH₃CH₂CH₂CH₂CH₂CH₂CH₂CH₃ CH₃(CH₂)₆CH₃

condensed structural formula

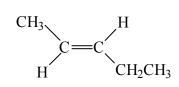
Newman projection C4-C5 vantage point

Line-angle or "zig-zag" structures

Depictions of trans 2-pentene



Lewis Structure



condensed structural formul:



line-angle or zig-zag structure

Depictions of cyclic hydrocarbons

Cyclohexane

$$\begin{array}{c} H & H \\ H & C \\ H & C \\ H & C \\ H & C \\ \end{array} \begin{array}{c} C & H \\ C & C \\ H \\ \end{array} \end{array} \equiv \begin{array}{c} \\ \end{array}$$

Benzene