

Chem 1062

Note Title

7/7/2008

- * Syllabus
- * D2L
- * Student Data Sheets
- * Any Questions?

Organic Chemistry - Ch. 14

Hydrocarbons

- saturated

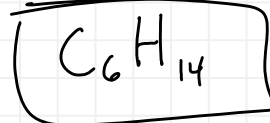
- unsaturated

Saturated hydrocarbons

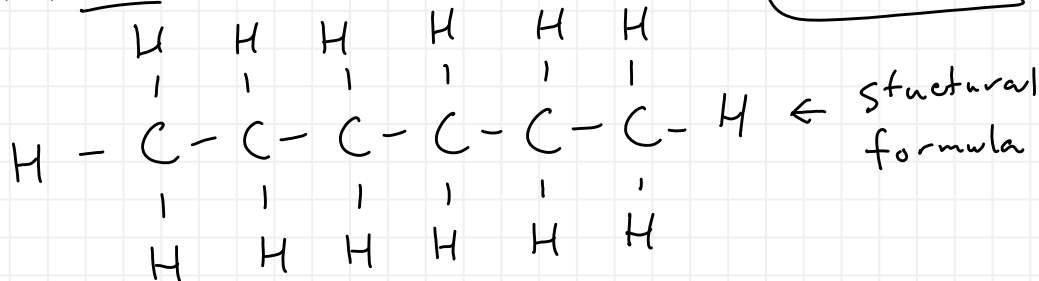
- 1) alkanes
- 2) cycloalkanes

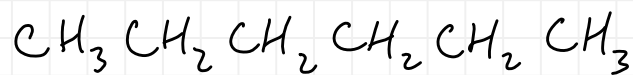
alkane p. 1001 $(C_n H_{2n+2})$

molecular formula



hexane



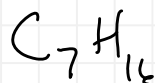


condensed
structural
formula

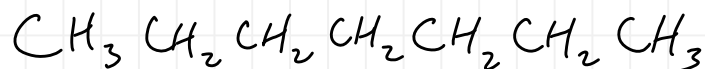
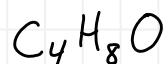
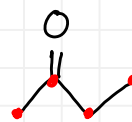


line
formula

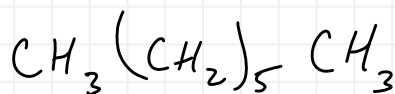
heptane \Rightarrow molecular formula
condensed structural
formula



line formula

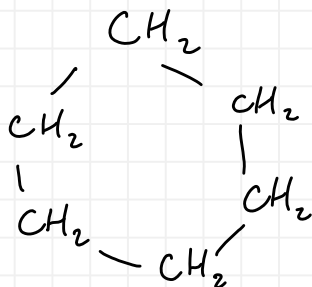


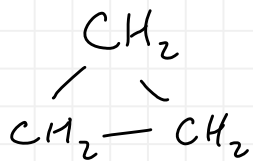
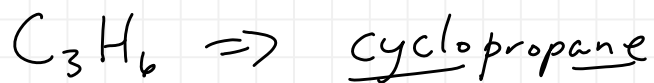
\equiv



② cycloalkane (C_nH_{2n})

cyclohexane \Rightarrow C_6H_{12}

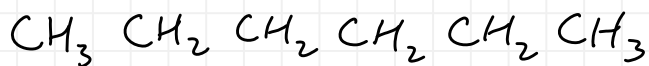




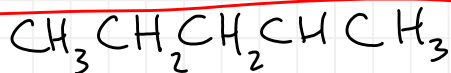
Build a model of C_6H_{14} that is different than mine and your neighbors.

Isomers - have the same molecular formula but a different molecular structure

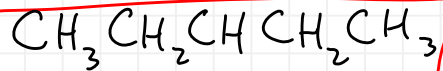
isomers of C_6H_{14}



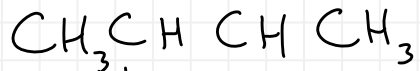
hexane



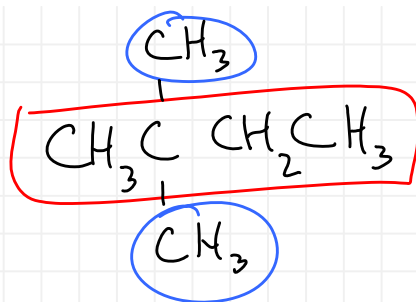
2-methylpentane



3-methylpentane

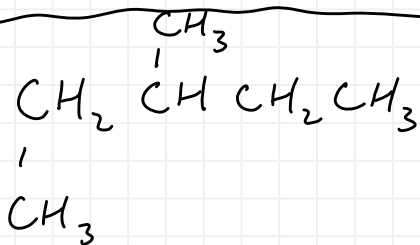


2,3-dimethylbutane



2,2-dimethylbutane

For tomorrow:



2,3,4-trimethylheptane

3-ethyl-2,4-dimethyloctane