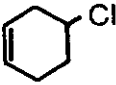


NAME \_\_\_\_\_ DATE \_\_\_\_\_

# Organic Chemistry: Nomenclature

## Practice Problems (Level 2)

- Tell what family to which each of the following compounds belong. Identify the functional group in each compound.
  - $\text{CH}_3\text{CH}_2 - \text{O} - \text{CH}_2\text{CH}_3$
  - $\text{CH}_3\text{NHCH}_3$
  - $\text{CH} \equiv \text{CCH}_2\text{CH}_3$
  - $\text{CH}_3\text{CHBrCH}_2\text{CH}_3$
- Give the correct IUPAC name for each of the following compounds.
  - $\text{CH}_3\text{C}(\text{CH}_3)_2\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$
  - $\text{CH}_3\text{CBr}_2\text{CBr}_2\text{C}(\text{CH}_3)_2\text{CH}_3$
  - $\text{CH}_3\text{C}(\text{OH})(\text{CH}_3)\text{CH}_2\text{CHBrCH}_2\text{CH}_3$
  - $\text{CH}_3\text{C} \begin{array}{l} \text{O} \\ \parallel \\ \text{H} \end{array}$
  - $\text{CH}_3\text{CH} = \text{C}(\text{CH}_3)\text{CH}_2\text{CH}_2\text{CH}_3$
  - $\text{CH}_3\text{CH}(\text{CH}_3)\text{CH}_2\text{C} \begin{array}{l} \text{O} \\ \parallel \\ \text{OH} \end{array}$
  - $\text{CH}_3\text{C}(\text{CH}_3)_2\text{C} \begin{array}{l} \text{O} \\ \parallel \\ \text{H} \end{array}$
  - 
- Draw all isomers represented by each of the following molecular formulas:
  - $\text{C}_5\text{H}_{12}$
  - $\text{C}_4\text{H}_9\text{Br}$
  - $\text{C}_4\text{H}_8$
- Write the correct structural formula for each of the following compounds.
  - 3-bromo-2, 5-dimethylhexane
  - 2,4,4-trimethyl-2-pentene
  - 3,4,5-trichloro-2-pentanol
  - p-chlorophenol
  - 2-methyl-3-pentanone
  - isopropyl alcohol
  - glycerol
  - formic acid