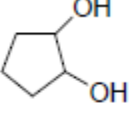


Organic nomenclature

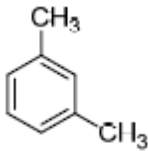
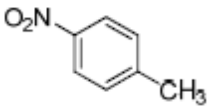
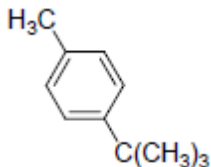
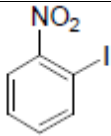
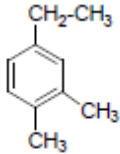
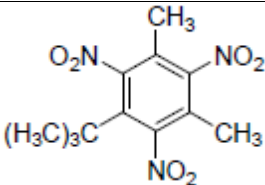
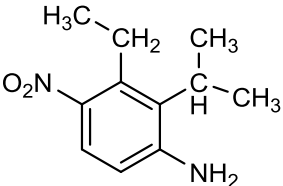
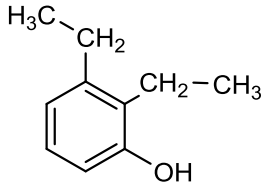
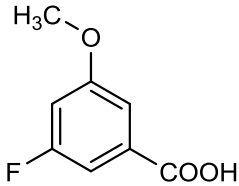
1. Compose IUPAC names for the following compounds:

<p>a)</p> $ \begin{array}{c} \text{CH}_2\text{-CH}_3 \\ \\ \text{H}_3\text{C}-\text{CH}-\text{C}-\text{CH}_2 \\ \quad \quad \\ \text{H}_3\text{C}-\text{CH}_2 \quad \text{H} \quad \text{CH}_2\text{-CH}_3 \end{array} $	<p>b)</p> $ \begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C}-\text{CH} \\ \\ \text{H}_3\text{C}-\text{H}_2\text{C}-\text{C}-\text{CH}-\text{CH}_3 \\ \quad \\ \text{H}_3\text{C}-\text{CH} \quad \text{CH}_3 \\ \\ \text{CH}_3 \end{array} $
<p>c)</p> $ \begin{array}{c} \text{H}_3\text{C} \quad \text{CH}_3 \quad \text{CH}_3 \\ \quad \quad \\ \text{H}_3\text{C}-\text{C}-\text{C}-\text{C}-\text{CH}_3 \\ \quad \quad \\ \text{H}_3\text{C} \quad \text{CH}_3 \quad \text{CH}_3 \end{array} $	<p>d)</p> $ \begin{array}{c} \text{H}_3\text{C} \quad \quad \text{CH}_3 \quad \quad \text{CH}_3 \\ \quad \quad \quad \quad \\ \text{H}_3\text{C}-\text{C}-\text{CH}-\text{C}-\text{CH}_2-\text{CH} \\ \quad \quad \quad \\ \text{H} \quad \text{CH}_3 \quad \text{CH} \quad \text{CH}_3 \\ \quad \quad \quad \\ \quad \quad \quad \text{H}_3\text{C} \end{array} $
<p>f)</p> $ \begin{array}{c} \text{OH} \\ \\ \text{CH}_3-\text{CH}_2-\text{CH}-\text{CH}-\text{CH}_2-\text{OH} \\ \\ \text{CH}_3 \end{array} $	<p>g)</p> $ \begin{array}{c} \text{CH}_3-\text{CH}_2-\text{CH}-\text{C}-\text{CH}_3 \\ \quad \quad \\ \text{CH}_3 \quad \quad \text{O} \end{array} $
<p>h)</p> 	<p>i)</p> $ \begin{array}{c} \text{O} \\ \\ \text{H}_3\text{C}-\text{CH}_2-\text{CH}_2-\text{CH}-\text{C}-\text{OH} \\ \\ \text{CH}_3 \end{array} $
<p>j)</p> $ \begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C}-\text{HC}=\text{CH}-\text{CH}_2-\text{CH}-\text{CH}_3 \end{array} $	<p>k)</p> $ \begin{array}{c} \text{CH}_3 \\ \\ \text{H}_2\text{C}=\text{C}-\text{C}-\text{CH}_3 \\ \quad \\ \text{HC} \quad \text{H} \\ \\ \text{HC}=\text{CH}_2 \end{array} $

2. Draw structural formulas for compounds:

- 2,2,3,4-tetramethylpentane
- 4-isopropyl-3,4-dimethylheptane
- 4-*sec.*-butyl-3-methylnonane
- 4-*tert.*-butyl-3-methylheptane
- cyclohexane
- 2-methyl-2-pentene
- 4-methyl-1-pentyne
- 3,4-dimethyl-2-pentanone

3. Compose IUPAC names for the following aromatic compounds:

4. Draw structural formulas for aromatic compounds:

- 4-nitro-2-chlorobenzoic acid
- 2-sulfo-4-nitrobenzoic acid
- 1-iodo-3-methylbenzene
- 3-ethoxy-4-fluorophenol
- 2-methylnaphthalene
- 1,8-dimethylnaphthalen-2-amine