

Naming Alcohols and Acids Worksheet 2

Name each of the following alcohols or acids.

$\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$ <i>1-propanol</i>	$\text{HOCH}_2(\text{CH}_2)_2\text{CH}_3$ <i>1-butanol</i>
CH_3CHOOH <i>ethanoic acid</i>	$\text{HCOOHCH}_2\text{CH}_3$ <i>propanoic acid</i>

Draw the structural diagram for each of the following alcohols or acids.

<p>2-methyl-2-butanol</p> $ \begin{array}{c} \text{CH}_3 \\ \\ \text{CH}_3 - \text{C} - \text{CH}_2 - \text{CH}_3 \\ \\ \text{OH} \end{array} $	<p>2,3,4-trimethyl-1-pentanol</p> $ \begin{array}{c} \text{CH}_3 \qquad \qquad \text{CH}_3 \\ \qquad \qquad \qquad \\ \text{CH}_2 - \text{CH} - \text{CH} - \text{CH} - \text{CH}_3 \\ \qquad \qquad \qquad \\ \text{OH} \qquad \qquad \text{CH}_3 \end{array} $
<p>3-ethyl-2,4-dimethyl-1-hexanol</p> $ \begin{array}{c} \text{CH}_3 \qquad \qquad \text{CH}_3 \\ \qquad \qquad \qquad \\ \text{CH}_2 - \text{CH} - \text{CH} - \text{CH} - \text{CH}_2 - \text{CH}_3 \\ \qquad \qquad \qquad \\ \text{OH} \qquad \qquad \text{CH}_2 - \text{CH}_3 \end{array} $	<p>3,3-diethyl-2-hexanol</p> $ \begin{array}{c} \text{CH}_2 - \text{CH}_3 \\ \\ \text{CH}_3 - \text{CH}_2 - \text{C} - \text{CH}_2 - \text{CH}_2 - \text{CH}_3 \\ \qquad \qquad \\ \text{OH} \qquad \text{CH}_2 - \text{CH}_3 \end{array} $
<p>pentanoic acid</p> $ \text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \overset{\text{O}}{\parallel} \text{C} - \text{OH} $	<p>2,3-dimethyl-butanoic acid</p> $ \begin{array}{c} \text{CH}_3 \qquad \text{O} \\ \qquad \qquad \parallel \\ \text{CH}_3 - \text{CH}_2 - \text{CH} - \text{C} - \text{OH} \\ \\ \text{CH}_3 \end{array} $
<p>2-ethyl-3,4,4-trimethyl-hexanoic acid</p> $ \begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \qquad \qquad \text{O} \\ \quad \qquad \qquad \qquad \parallel \\ \text{CH}_3 - \text{CH}_2 - \text{C} - \text{CH} - \text{CH} - \text{C} - \text{OH} \\ \qquad \qquad \qquad \\ \text{CH}_3 \qquad \qquad \text{CH}_2 - \text{CH}_3 \end{array} $	<p>2-methyl-propanoic acid</p> $ \begin{array}{c} \text{CH}_3 \quad \text{O} \\ \qquad \qquad \parallel \\ \text{CH}_3 - \text{CH} - \text{C} - \text{OH} \end{array} $