

### Quiz (Nomenclature of Alkanol)

Compound	IUPAC name
$  \begin{array}{c}  \text{C}_3\text{H}_7 \\    \\  \text{C}_2\text{H}_5 - \text{C} - \text{OH} \\    \\  \text{C}_2\text{H}_5  \end{array}  $	
$  \begin{array}{c}  \text{CH}_3 \\    \\  \text{CHOH} \\    \\  \text{CH}_3\text{CH}_2\text{CHCH}_2\text{OH}  \end{array}  $	
$\text{CH}_3(\text{CH}_2)_3\text{OH}$	
$(\text{CH}_3)_3\text{CC}(\text{CH}_3)_2\text{CH}_2\text{OH}$	
$(\text{CH}_3)_2\text{CHCH}(\text{CH}_3)\text{CH}_2\text{CH}_2\text{OH}$	
$  \begin{array}{cccc}  \text{H} & \text{OH} & \text{H} & \text{H} \\    &   &   &   \\  \text{H} - \text{C} - & \text{C} - & \text{C} - & \text{C} - \text{H} \\    &   &   &   \\  \text{H} & \text{OH} & \text{H} & \text{H}  \end{array}  $	
$  \begin{array}{cccc}  \text{H} & \text{CH}_3 & \text{H} & \text{H} \\    &   &   &   \\  \text{H} - \text{C} - & \text{C} - & \text{C} - & \text{C} - \text{H} \\    &   &   &   \\  \text{H} & \text{OH} & \text{H} & \text{H}  \end{array}  $	
$  \begin{array}{c}  \text{OH} \quad \text{CH}_3 \\    \quad   \\  \text{CH}_3 - \text{CH}_2 - \text{C} - \text{CH} \\    \quad   \\  \text{CH}_3 \quad \text{CH}_3  \end{array}  $	

### Suggested Answer

Compound	IUPAC name
$\begin{array}{c} \text{C}_3\text{H}_7 \\   \\ \text{C}_2\text{H}_5 - \text{C} - \text{OH} \\   \\ \text{C}_2\text{H}_5 \end{array}$	<b>3-ethylhexan-3-ol</b>
$\begin{array}{c} \text{CH}_3 \\   \\ \text{CHOH} \\   \\ \text{CH}_3\text{CH}_2\text{CHCH}_2\text{OH} \end{array}$	<b>2-ethylbutane-1,3-diol</b>
$\text{CH}_3(\text{CH}_2)_3\text{OH}$	<b>Butan-1-ol</b>
$(\text{CH}_3)_3\text{CC}(\text{CH}_3)_2\text{CH}_2\text{OH}$	<b>2,2,3,3-tetramethylbutan-1-ol</b>
$(\text{CH}_3)_2\text{CHCH}(\text{CH}_3)\text{CH}_2\text{CH}_2\text{OH}$	<b>3,4-dimethylpentan-1-ol</b>
$\begin{array}{cccc} \text{H} & \text{OH} & \text{H} & \text{H} \\   &   &   &   \\ \text{H} - \text{C} - & \text{C} - & \text{C} - & \text{C} - \text{H} \\   &   &   &   \\ \text{H} & \text{OH} & \text{H} & \text{H} \end{array}$	<b>Butane-2,2-diol</b>
$\begin{array}{cccc} \text{H} & \text{CH}_3 & \text{H} & \text{H} \\   &   &   &   \\ \text{H} - \text{C} - & \text{C} - & \text{C} - & \text{C} - \text{H} \\   &   &   &   \\ \text{H} & \text{OH} & \text{H} & \text{H} \end{array}$	<b>2-methylbutan-2-ol</b>
$\begin{array}{c} \text{OH} \quad \text{CH}_3 \\   \quad   \\ \text{CH}_3 - \text{CH}_2 - \text{C} - \text{CH} \\   \quad   \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$	<b>2,3-dimethylpentan-3-ol</b>