



Answer all the questions then check your answers

1. Name the first 4 alcohols.
2. What is the general formula for alcohols?
3. Complete the table below:

alcohol	structural formula	Displayed formula
methanol		
Ethanol		
Propanol		
butanol		

4. List 3 common uses of alcohols.
5. Fill in the gap: Name the functional group present in all alcohols is the _____ group.
6. True or False: Ethanol is the only alcohol used in alcoholic drinks.
7. Draw the structural formula for propanol.
8. Name two products of the fermentation of glucose.
- b. Write a word and symbolic equation for fermentation.

Answers

1. Name the first 4 alcohols.

Methanol, ethanol, propanol, butanol

2. What is the general formula for alcohols?

$C_nH_{2n+1}OH$

3. Complete the table below:

alcohol	structural formula	Displayed formula
methanol	CH_3OH	$\begin{array}{c} H \\ \\ H-C-OH \\ \\ H \end{array}$
Ethanol	C_2H_5OH	$\begin{array}{c} H \quad H \\ \quad \\ H-C-C-OH \\ \quad \\ H \quad H \end{array}$
Propanol	C_3H_7OH	$\begin{array}{c} H \quad H \quad H \\ \quad \quad \\ H-C-C-C-OH \\ \quad \quad \\ H \quad H \quad H \end{array}$
butanol	C_4H_9OH	$\begin{array}{c} H \quad H \quad H \quad H \\ \quad \quad \quad \\ H-C-C-C-C-OH \\ \quad \quad \quad \\ H \quad H \quad H \quad H \end{array}$

4. List 3 common uses of alcohols.

- Solvents for perfumes and other cosmetics, paints, deodorants, marker pens
- Hand sanitizers.
- Fuel- it burns to release lots of energy
- Alcoholic drinks - ethanol only

5. Fill in the gap: Name the functional group present in all alcohols is the _____ group.

Hydroxyl (OH)

6. True or False: Ethanol is the only alcohol used in alcoholic drinks.

True- Ethanol is the only alcohol used in alcoholic drinks primarily due to its relatively low toxicity compared to other alcohols

7. Draw the structural formula for propanol.

$\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$

8. Name two products of the fermentation of glucose.

Ethanol and carbon dioxide

b. Write a word and symbolic equation for fermentation.

glucose \rightarrow ethanol + carbon dioxide

