

## **Alcohols Quiz PDF**

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| ☐ Wear protective gear.   |
|---|
| Avoid ingestion and skin contact.   |
| ☐ Store away from heat sources.   |
|   |
| Discuss the impact of alcohols on human health, focusing on both positive and negative effects. |
| ☐ Alcohols can have positive effects such as moderate cardiovascular benefits.                  |
| Alcohols can cause addiction and liver damage.  |
| Alcohols have no impact on mental health.   |
| Alcohols can impair judgment.   |
| Explain the difference between primary, secondary, and tertiary alcohols.                       |
| Primary alcohols have the hydroxyl group attached to a carbon atom bonded to one other carbon.  |
| ☐ Secondary alcohols have the hydroxyl group attached to a carbon bonded to two other carbons.  |
| ☐ Tertiary alcohols have the hydroxyl group attached to a carbon bonded to three other carbons. |
| All of the above.   |
|   |
| What are the environmental concerns associated with alcohol production? (Select all that apply) |
| ☐ Water usage   |
| ☐ Greenhouse gas emissions  |
| ☐ Soil degradation  |
| ☐ Air pollution   |
|   |
| Which of the following is a primary alcohol?  |
| ○ Methanol  |
| ○ Isopropanol   |
| ○ Tert-butanol  |
| ○ Acetone   |
|   |
| Explain how alcohols can be used as intermediates in the synthesis of other organic compounds.  |
| Alcohols can be converted into aldehydes.   |
| Alcohols can be converted into ketones.   |
| Alcohols cannot be used as intermediates.   |
| Alcohols can be converted into esters.  |

What are the possible products of the oxidation of a primary alcohol? (Select all that apply)



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| ☐ Aldehyde ☐ Ketone ☐ Carboxylic acid ☐ Ether   |
|---|
| What is the main industrial method for producing ethanol?   |
| ○ Fermentation  |
| Hydration of ethylene   |
| Reduction of acetaldehyde   |
| ○ Hydrolysis of esters  |
| Which of the following alcohols is most soluble in water?   |
| ○ Methanol  |
| ○ Butanol   |
| Pentanol  |
| ○ Hexanol   |
| Which alcohol is known for its toxicity and can cause blindness if ingested?  |
| ○ Ethanol   |
| ○ Methanol  |
| ○ Propanol  |
| ○ Butanol   |
| Describe the process of fermentation and its role in alcohol production.  |
| Fermentation is a biological process where sugars are converted into ethanol and carbon dioxide by yeast.                                       |
| Fermentation is a chemical process that requires high temperatures.   |
| Fermentation is a process that only occurs in anaerobic conditions.   |
|   |
| Fermentation is a process that can produce various alcohols.  |
| Fermentation is a process that can produce various alcohols.  Which enzyme is primarily responsible for metabolizing ethanol in the human body? |
|   |
| Which enzyme is primarily responsible for metabolizing ethanol in the human body?   |
| Which enzyme is primarily responsible for metabolizing ethanol in the human body?  Lipase   |

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| Which reactions can alcohols undergo? (Select all that apply)                      |
|--|
| Esterification   |
| Hydrogenation  |
| Dehydration  |
| Halogenation   |
| Which factors affect the boiling point of alcohols? (Select all that apply)        |
| ☐ Molecular weight   |
| ☐ Hydrogen bonding   |
| ☐ Presence of double bonds   |
| Chain length   |
| Which of the following are considered polyhydric alcohols? (Select all that apply) |
| ☐ Ethylene glycol  |
| Glycerol   |
|  |
| Butanol  |
|  |
| Which of the following are common uses of ethanol? (Select all that apply)         |
| Solvent  |
| ☐ Fuel   |
| ☐ Antiseptic   |
| ☐ Plasticizer  |