

Alcohols Quiz Answer Key PDF

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What is the IUPAC name for the alcohol of	commonly known as i	rubbing alcohol?
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- A. Ethanol
- B. Methanol
- C. Propan-2-ol ✓
- D. Butanol

How does the presence of a hydroxyl group affect the physical properties of alcohols compared to alkanes?

- A. The presence of a hydroxyl group allows alcohols to form hydrogen bonds. ✓
- B. Alcohols have lower boiling points than alkanes.
- C. Alcohols are less soluble in water than alkanes.
- D. Alcohols have higher boiling points than alkanes. ✓

What type of reaction is involved in the conversion of alcohols to alkenes?

- A. Oxidation
- B. Reduction
- C. Dehydration ✓
- D. Esterification

What is the functional group present in all alcohols?

- A. Carboxyl group
- B. Hydroxyl group ✓
- C. Carbonyl group
- D. Amino group

What are the safety precautions necessary when handling methanol in a laboratory setting?



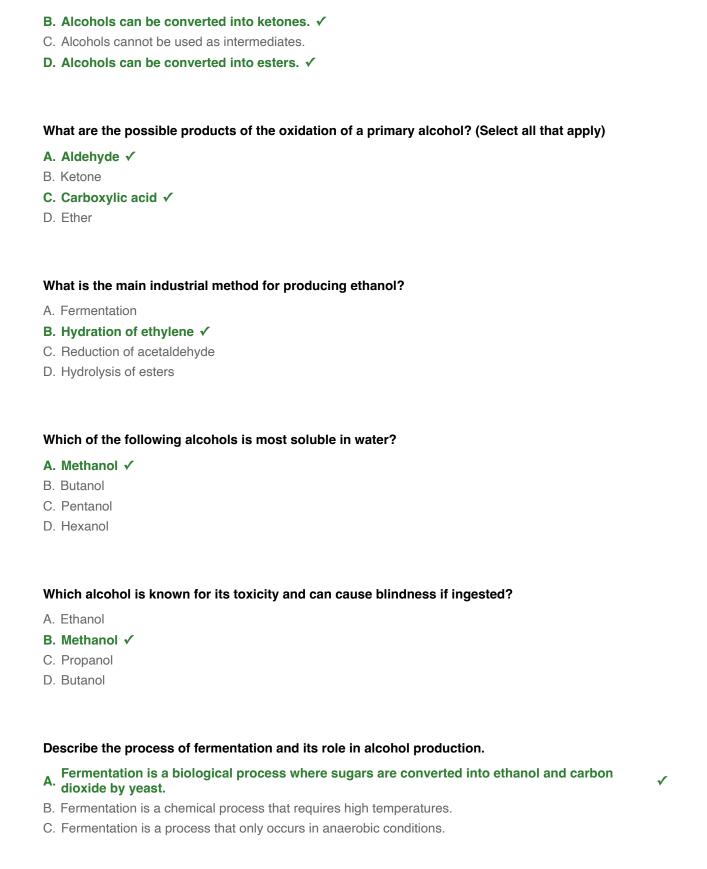
A. Use in a well-ventilated area. ✓
B. Wear protective gear. ✓
C. Avoid ingestion and skin contact. ✓
D. Store away from heat sources. ✓
Discuss the impact of alcohols on human health, focusing on both positive and negative effects.
A. Alcohols can have positive effects such as moderate cardiovascular benefits. ✓
B. Alcohols can cause addiction and liver damage. ✓
C. Alcohols have no impact on mental health.
D. Alcohols can impair judgment. ✓
Explain the difference between primary, secondary, and tertiary alcohols.
A. Primary alcohols have the hydroxyl group attached to a carbon atom bonded to one other carbon.
B. Secondary alcohols have the hydroxyl group attached to a carbon bonded to two other carbons.
C. Tertiary alcohols have the hydroxyl group attached to a carbon bonded to three other carbons. \checkmark
D. All of the above. ✓
What are the environmental concerns associated with alcohol production? (Select all that apply)
A. Water usage ✓
B. Greenhouse gas emissions ✓
C. Soil degradation ✓
D. Air pollution
Which of the following is a primary alcohol?
A. Methanol ✓

Explain how alcohols can be used as intermediates in the synthesis of other organic compounds.

A. Alcohols can be converted into aldehydes. ✓

B. IsopropanolC. Tert-butanolD. Acetone







D. Fermentation is a process that can produce various alcohols. ✓
Which enzyme is primarily responsible for metabolizing ethanol in the human body?
A. Lipase
B. Amylase
C. Alcohol dehydrogenase ✓
D. Protease
Which reactions can alcohols undergo? (Select all that apply)
A. Esterification ✓
B. Hydrogenation
C. Dehydration ✓
D. Halogenation ✓
Which factors affect the boiling point of alcohols? (Select all that apply)
A. Molecular weight ✓
B. Hydrogen bonding ✓
C. Presence of double bonds
D. Chain length ✓
Which of the following are considered polyhydric alcohols? (Select all that apply)
A. Ethylene glycol ✓
B. Glycerol ✓
C. Methanol
D. Butanol
Which of the following are common uses of ethanol? (Select all that apply)

A. Solvent ✓
B. Fuel ✓

C. Antiseptic ✓D. Plasticizer



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