

## **Aldehydes Quiz PDF**

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Which reactions can aldehydes undergo? (Select all that apply)
<ul><li>Nucleophilic addition</li><li>Electrophilic substitution</li><li>Aldol condensation</li><li>Esterification</li></ul>
What is the boiling point trend for aldehydes compared to alkanes and alcohols?
<ul><li>Higher than both</li><li>Lower than both</li><li>Higher than alkanes, lower than alcohols</li></ul>
<ul><li>Lower than alkanes, higher than alcohols</li><li>Which of the following are common methods to synthesize aldehydes? (Select all that apply)</li></ul>
Oxidation of primary alcohols
Reduction of carboxylic acids
Ozonolysis of alkenes Hydrolysis of esters
Which of the following is the IUPAC name for formaldehyde?
<ul><li>Ethanal</li><li>Methanal</li><li>Propanal</li><li>Butanal</li></ul>

Describe the role of aldehydes in the fragrance industry and provide examples of commonly used aldehydes in perfumes.



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How can aldehydes be differentiated from ketones using chemical tests? Provide example	:s.
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What is the significance of the carbonyl group in the reactivity of aldehydes?	
what is the significance of the earbony group in the reactivity of aldenyaes:	
Which aldehyde is commonly used as a preservative?	
○ Acetaldehyde	
○ Formaldehyde	
○ Benzaldehyde	
○ Propionaldehyde	
What is the main product when an aldehyde is oxidized?	
○ Alcohol	
○ Ketone	
○ Carboxylic acid	

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O Ether



Which aldehyde is used in the production of resins and plastics?
○ Formaldehyde
○ Acetaldehyde
○ Benzaldehyde
<ul><li>Propionaldehyde</li></ul>
Which of the following are common uses of aldehydes? (Select all that apply)
☐ As preservatives
In the production of dyes
As a primary fuel source
☐ In the manufacture of perfumes
Which test is commonly used to distinguish aldehydes from ketones?
Benidict's test
○ Tollens' test ○ Iodine test
Bromine water test
2. Diolilino Water too.
What is the general formula for an aldehyde?
○ R-COOH
○ R-CHO
○ R-OH
○ R-CO-R'
Which of the following aldehydes are naturally occurring? (Select all that apply)
Benzaldehyde
☐ Formaldehyde
Vanillin
Acetaldehyde
Which reagent is used to reduce aldehydes to primary alcohols?
O Potassium permanganate
Sodium borohydride
○ Sulfuric acid

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○ Bromine	
Discuss the environmental and health concerns associated with formaldehyde exposure.	
Explain why aldehydes generally have higher boiling points than alkanes but lower than alco	obolo
Explain why aldenydes generally have higher boiling points than alkanes but lower than alco	onois.
Which of the following properties are true for aldehydes? (Select all that apply)	
☐ They are generally more reactive than ketones.	
☐ They have a carbonyl group.	
☐ They can form hydrogen bonds with water.	
☐ They are always insoluble in water.	
Describe the process of oxidizing a primary alcohol to form an aldehyde, including the reagensed.	ents

What safety precautions should be taken when handling aldehydes? (Select all that apply)



Use in a well-ventilated area	
☐ Wear personal protective equipment	
Avoid all contact with water	
☐ Store in a cool, dry place	

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