

## **Esters Quiz PDF**

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List and explain at least two industrial applications of esters and why they are suitable for these uses.	
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What is the general formula for esters?	
○ RCOOH	
○ RCOOR'	
○ ROH	
RCHO	
Describe how the structure of esters affects their physical properties, such as boiling point and solubility.	
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What type of smell is commonly associated with esters?	
◯ Pungent	
○ Metallic	
What type of smell is commonly associated with esters?  Pungent	10



○ Pleasant and fruity	
Odorless	
Discuss the role of esters in the fragrance industry and how their properties make application.	them ideal for this
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Describe the process of hydrolysis of esters and the conditions under which it oc	curs.
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Which process is primarily used to form esters?	
○ Saponification	
○ Esterification	
○ Hydrogenation	
OPolymerization	
Which of the following is a typical reaction product of ester hydrolysis?	
○ Alkene	
○ Alcohol and acid	
○ Ketone	
○ Ether	
Which of the following is a common use of esters?	
○ Antifreeze	



○ Solvents in nail polish removers
<ul><li>Fuel additives</li></ul>
○ Fertilizers
Which of the following are characteristics of esters in terms of their physical properties? (Select all that apply)
☐ Non-polar
High boiling point
☐ Volatile
Soluble in organic solvents
How does the naming convention of esters reflect their chemical structure? Provide an example.
Which ester is commonly known as wintergreen oil?
○ Ethyl acetate
O methyl salicylate
O Butyl acetate
O Propyl acetate
In which industries are esters commonly used? (Select all that apply)
☐ Fragrance
☐ Construction
☐ Flavor
☐ Textile
What is the suffix used in the nomenclature of esters?
○ -al
O -one
O -oate



○ -ene
Which of the following are components needed for esterification? (Select all that apply)
☐ Alcohol ☐ Carboxylic acid ☐ Water ☐ Base
Which of the following are examples of esters? (Select all that apply)
☐ Ethyl acetate ☐ Propanol ☐ methyl salicylate ☐ Acetic acid
What is the main reason esters have lower boiling points than acids?
<ul><li>Smaller molecular size</li><li>Lack of hydrogen bonding</li><li>Higher molecular weight</li><li>Greater polarity</li></ul>
Which of the following are properties of esters? (Select all that apply)
<ul> <li>☐ High solubility in water</li> <li>☐ Pleasant smell</li> <li>☐ Lower boiling points than acids</li> <li>☐ High polarity</li> </ul>
What are the typical products of ester hydrolysis? (Select all that apply)
☐ Alcohol ☐ Ketone ☐ Carboxylic acid ☐ Alkene
Explain the process of esterification and its significance in organic chemistry.



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