

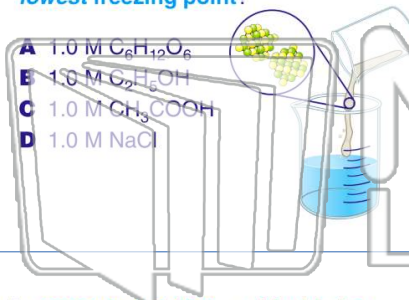


Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1

Which aqueous solution has the **lowest freezing point**?

- A 1.0 M  $C_6H_{12}O_6$
- B 1.0 M  $C_2H_5OH$
- C 1.0 M  $CH_3COOH$
- D 1.0 M NaCl



2

When the **salt  $NH_4NO_3$**  is dissolved in **water**, it produces a **solution** that is

- A acidic, with a pH less than 7
- B acidic, with a pH greater than 7
- C basic, with a pH less than 7
- D basic, with a pH greater than 7

3

In **aqueous solution**, a **chloride ion** is attracted to which end of the water molecule?



4

Equal volumes of 0.1 M NaOH and 0.1 M HCl are thoroughly mixed. **The resulting solution has a pH** closest to

5

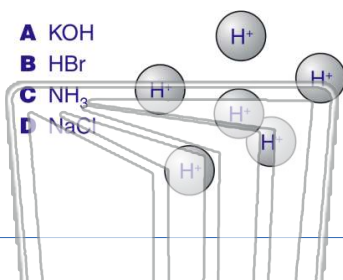


## PREVIEW

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7

- A KOH
- B HBr
- C  $NH_3$
- D NaCl



9

A student observed that the temperature of water **increased** when a salt was dissolved in it. The student should conclude that **dissolving** the salt caused

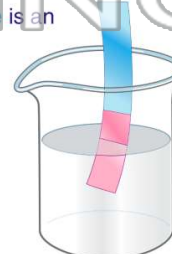
- A formation of an acidic solution
- B formation of a basic solution
- C an exothermic reaction
- D an endothermic reaction



10

Which **substance** is an **Arrhenius acid**?

- A LiF(aq)
- B HBr(aq)
- C  $Mg(OH)_2(aq)$
- D  $CH_3CHO$



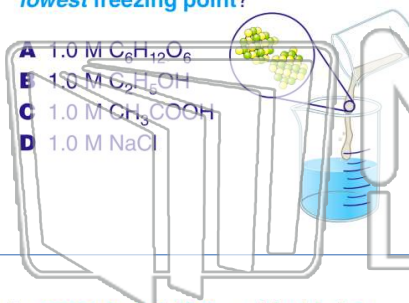


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A

3

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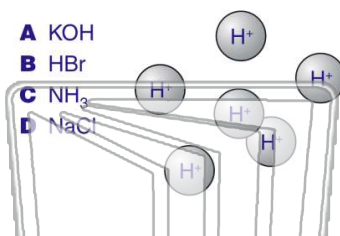
## PREVIEW

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A

7

- A KOH
- B HBr
- C  $NH_3$
- D NaCl



B

- A It changes blue litmus to red and has a pH less than 7.
- B It changes blue litmus to red and has a pH greater than 7.
- C It changes red litmus to blue and has a pH less than 7.
- D It changes red litmus to blue and has a pH greater than 7.

D

9

A student observed that the temperature of water **increased** when a salt was dissolved in it. The student should conclude that **dissolving** the salt caused

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- B formation of a basic solution
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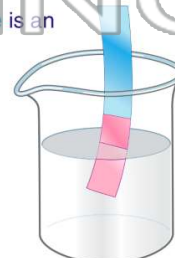


C

10

Which **substance** is an **Arrhenius acid**?

- A LiF(aq)
- B HBr(aq)
- C  $Mg(OH)_2(aq)$
- D  $CH_3CHO$



B