



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

1 Which **formula** is an **empirical formula**?

- A  $C_2H_6$
- B  $C_4H_{10}$
- C  $H_2O$
- D  $H_2O_2$

2 Organic compounds that are essentially **nonpolar** and exhibit **weak intermolecular forces** have

- A low vapor pressure
- B low melting points
- C high boiling points
- D high electrical conductivity in solution

3 Which formula represents a compound that is **formed primarily** by **sharing electrons**?

- A KCl
- B  $CaCl_2$
- C  $CrCl_3$
- D  $CCl_4$

4 Which compound has molecules that form the **strongest hydrogen bonds**?

- A HI
- B HBr
- C HF
- D HCl

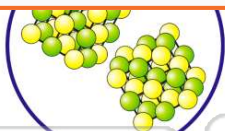


## PREVIEW

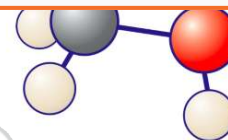
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- A  $N_2O$
- C HCl
- D  $H_2O$

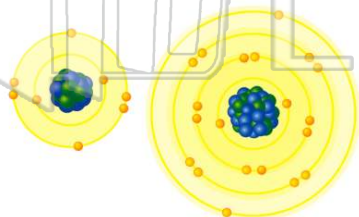


- C butane
- D methanol



9 Which **compound** contains **ionic bonds**?

- A NO
- B  $NO_2$
- C CaO
- D  $CO_2$



10 Which **compound** is classified as a **hydrocarbon**?

- A ethane
- B ethanol
- C chloroethane
- D ethanoic acid



## ANSWER KEY

Which **formula** is an **empirical formula**?

- A  $C_2H_6$
- B  $C_4H_{10}$
- C  $H_2O$
- D  $H_2O_2$

(c)

Organic compounds that are essentially **nonpolar** and exhibit **weak intermolecular forces** have

- A low vapor pressure
- B low melting points
- C high boiling points
- D high electrical conductivity in solution

(b)

Which formula represents a compound that is **formed primarily** by **sharing electrons**?

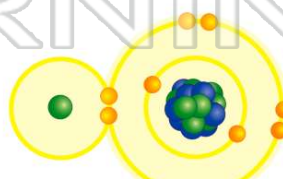
- A KCl
- B  $CaCl_2$
- C  $CrCl_3$
- D  $CCl_4$

(d)

Which compound has molecules that form the **strongest hydrogen bonds**?

- A HI
- B HBr
- C HF
- D HCl

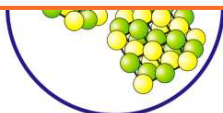
(c)



## PREVIEW

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D  $H_2O$



D methanol



Which **compound** contains **ionic bonds**?

- A NO
- B  $NO_2$
- C CaO
- D  $CO_2$

(c)

Which **compound** is classified as a **hydrocarbon**?

- A ethane
- B ethanol
- C chloroethane
- D ethanoic acid

(a)

