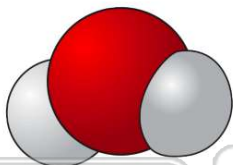




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 An **example** of a **binary compound** is

- A He
- B H<sub>2</sub>O
- C H<sub>2</sub>
- D H<sub>2</sub>SO<sub>4</sub>



2 Which formula is **correct** for **ammonium sulfate**?

- A NH<sub>4</sub>SO<sub>4</sub>
- B (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>
- C NH<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>
- D (NH<sub>4</sub>)<sub>2</sub>(SO<sub>4</sub>)<sub>2</sub>

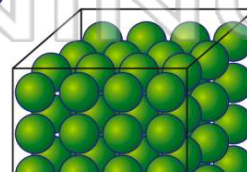


3 An example of an **empirical formula** is

- A CH<sub>4</sub>
- B C<sub>2</sub>H<sub>4</sub>
- C C<sub>2</sub>H<sub>4</sub>(OH)<sub>2</sub>
- D C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

4 Which **compound** is a **network solid** at STP?

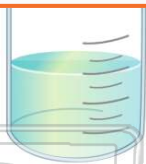
- A CO<sub>2</sub>
- B H<sub>2</sub>O
- C SiC
- D NaH



## PREVIEW

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- B Cu(NO<sub>3</sub>)<sub>2</sub>
- C KNO<sub>3</sub>
- D Al(NO<sub>3</sub>)<sub>3</sub>



- B X loses electrons to Y to form a covalent bond.
- C X gains electrons from Y to form an ionic bond.
- D X gains electrons from Y to form a covalent bond.

9 A compound consists of **25.9% nitrogen** and **74.1% oxygen** by mass. What is the **empirical formula** of the compound?

- A NO
- B NO<sub>2</sub>
- C N<sub>2</sub>O
- D N<sub>2</sub>O<sub>5</sub>

10 Which **substance** is a **binary compound**?

- A barium
- B beryllium
- C carbon dioxide
- D calcium hydroxide

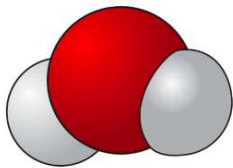




## ANSWER KEY

An **example** of a **binary compound** is

- A He
- B H<sub>2</sub>O
- C H<sub>2</sub>
- D H<sub>2</sub>SO<sub>4</sub>



(b)

Which formula is **correct** for **ammonium sulfate**?

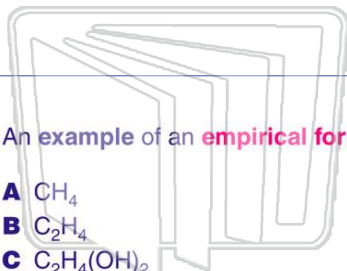
- A NH<sub>4</sub>SO<sub>4</sub>
- B (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>
- C NH<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>
- D (NH<sub>4</sub>)<sub>2</sub>(SO<sub>4</sub>)<sub>2</sub>



(b)

An **example** of an **empirical formula** is

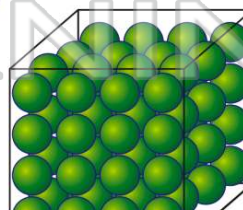
- A CH<sub>4</sub>
- B C<sub>2</sub>H<sub>4</sub>
- C C<sub>2</sub>H<sub>4</sub>(OH)<sub>2</sub>
- D C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>



(a)

Which **compound** is a **network solid** at STP?

- A CO<sub>2</sub>
- B H<sub>2</sub>O
- C SiC
- D NaH



(c)



## PREVIEW

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D Al(NO<sub>3</sub>)<sub>3</sub>



- C X gains electrons from Y to form an ionic bond.
- D X gains electrons from Y to form a covalent bond.

A compound consists of **25.9% nitrogen** and **74.1% oxygen** by mass. What is the **empirical formula** of the compound?

- A NO
- B NO<sub>2</sub>
- C N<sub>2</sub>O
- D N<sub>2</sub>O<sub>5</sub>

(d)

Which **substance** is a **binary compound**?

- A barium
- B beryllium
- C carbon dioxide
- D calcium hydroxide



(c)