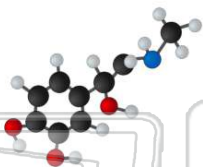




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

- 1 **Matter** that is composed of two or more different elements **chemically combined** in a fixed proportion is classified as

- A a compound
- B an isotope
- C a mixture
- D a solution



- 2 Which **compound** is a **saturated hydrocarbon**?

- A hexane
- B hexene
- C hexanol
- D hexanal

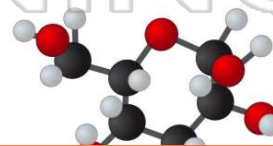
- 3 Which compound could serve as a **reactant** in a **neutralization reaction**?

- A NaCl
- B KOH
- C CH<sub>3</sub>OH
- D CH<sub>3</sub>CHO



- 4 What is the **empirical formula** for the compound C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>?

- A CH<sub>2</sub>O
- B C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>
- C C<sub>3</sub>H<sub>6</sub>O<sub>3</sub>
- D C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

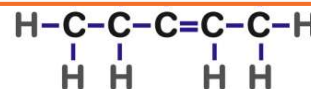


## PREVIEW

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- C caused by different numbers of neutrons
- D caused by unequal charge distribution

- B 5-pentyne
- C 2-pentyne
- D 3-pentyne



- 9 Which statement describes a **chemical property** that can be used to **distinguish** between compound **A** and compound **B**?

- A A is a blue solid, and B is a white solid.
- B A has a high melting point, and B has a low melting point.
- C A dissolves in water, and B does not dissolve in water.
- D A does not burn in air, and B does burn in air.

- 10 Which **compound** is an **Arrhenius base**?

- A CH<sub>3</sub>OH
- B CO<sub>2</sub>
- C LiOH
- D NO<sub>2</sub>





## ANSWER KEY

**Matter** that is composed of two or more different elements **chemically combined** in a fixed proportion is classified as

- A a compound
- B an isotope
- C a mixture
- D a solution



(a)

Which **compound** is a **saturated hydrocarbon**?

- A hexane
- B hexene
- C hexanol
- D hexanal

(a)

Which compound could serve as a **reactant** in a **neutralization reaction**?

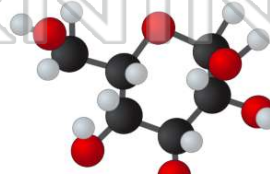
- A NaCl
- B KOH
- C CH<sub>3</sub>OH
- D CH<sub>3</sub>CHO



(b)

What is the **empirical formula** for the compound C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>?

- A CH<sub>2</sub>O
- B C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>
- C C<sub>3</sub>H<sub>6</sub>O<sub>3</sub>
- D C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>



(a)



## PREVIEW

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D caused by unequal charge distribution

D 3-pentyne



Which statement describes a **chemical property** that can be used to **distinguish** between compound **A** and compound **B**?

- A A is a blue solid, and B is a white solid.
- B A has a high melting point, and B has a low melting point.
- C A dissolves in water, and B does not dissolve in water.
- D A does not burn in air, and B does burn in air.

(d)

Which **compound** is an **Arrhenius base**?

- A CH<sub>3</sub>OH
- B CO<sub>2</sub>
- C LiOH
- D NO<sub>2</sub>



(c)