

Kinetic Molecular Theory Bell Ringer Activity

Select the best answer for each of the following questions.

1. Which of the following is an example of a molecule, but not a compound?
 - a. SO_2
 - b. S_8
 - c. H_2SO_4
 - d. S^{-2}

2. Which of the following is the correct definition for an atom?
 - a. The smallest building block of matter
 - b. The smallest building block of matter that retains the chemical properties of the element.
 - c. The smallest, indivisible building block of matter.
 - d. The purest type of matter.

Decide whether the following statements are true or false.

3. All molecules are compounds, but not all compounds are molecules.

4. Compounds are pure substances.

Theobromine, is a bitter alkaloid of the cacao plant found in chocolate. It has the chemical formula $\text{C}_7\text{H}_8\text{N}_4\text{O}_2$.

5. Calculate how many atoms are in two molecules of $\text{C}_7\text{H}_8\text{N}_4\text{O}_2$.