



Semester 2 – Chemistry Worksheet
Lesson 10.3

Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. A compound is 21.20% Nitrogen, 6.06% Hydrogen, 24.30% Sulfur, and 48.45% Oxygen. Write the empirical formula and name the compound.
 - a. NH_4SO_4
 - b. $\text{N}_2\text{H}_4\text{SO}_4$
 - c. $(\text{NH}_4)_3\text{SO}_3$
 - d. $(\text{NH}_4)_2\text{SO}_4$

2. A compound is 38.6 % Na, 26.9% S, and 53.8% O. Its molecular mass is 142 g/mole. What is its molecular formula?
 - a. NaSO_4
 - b. Na_2SO_4
 - c. Na_2SO_3
 - d. NaSO_3