

EMPERICAL FORMULA WORKSHEET

1. Find the empirical formula of a compound that contains 56.3% P and 43.7 % O.

1. _____

2. Find the empirical formula of a compound that contains 69.6% Ba, 6.1% C and 24.3 %O.

2. _____

3. Find the empirical formula of a compound that contains 4.80 g of C and 0.40 g of H.

3. _____

4. A compound is composed of 7.20 g of carbon, 1.20 g of hydrogen, and 9.60 g of oxygen. The molar mass of the compound is 180 g. Find the empirical formula for this compound. What is the molecular formula?

4. _____ , _____

5. Oxalic acid is a compound used in cosmetics and paints. A 0.725-g sample of oxalic acid was found contained 0.194 g of carbon, 0.016 g of hydrogen, and 0.516 g of oxygen. If the molar mass of oxalic acid is 90.04 g/mol, what is the empirical formula? What is the molecular formula?

5. _____ , _____

