

Empirical and Molecular Formula Practice (answers below!)

A compound consists of 72.2% magnesium and 27.8% nitrogen by mass. What is its empirical formula?

A sample contains 40.0% carbon, 6.7% hydrogen, and 53.3% oxygen by mass. What is its empirical formula?

A sample contains 0.3086 g of hydrogen, 3.161 g of phosphorus, and 6.531 g of oxygen. What is its empirical formula?

Nicotine is 74.1% carbon, 8.7% hydrogen, and 17.2% nitrogen by mass. Its molar mass is about 162 g/mol. What is its empirical and molecular formula?

