

Problem Solving: Obtaining Empirical Formula from Experimental Data

PROCEDURE FOR

Obtaining an Empirical Formula from Experimental Data

1. Write down (or calculate) in grams the masses of each element present in a sample of the compound. If you are given mass percent composition, assume a 100-g sample and calculate the masses of each element from the given percentages.

2. Convert each of the masses in Step 1 to moles by using the appropriate molar mass for each element as a conversion factor.

3. Write down a preliminary formula for the compound using the number of moles of each element from Step 2 as subscripts.

4. Divide all the subscripts in the formula by the smallest subscript.

5. If the subscripts are not whole numbers, multiply all the subscripts by a small whole number (see table) to get whole-number subscripts.

Fractional Subscript	Multiply by This
0.50	2
0.25	4
0.33	3
0.40	5
0.20	2
0.60	5
0.75	4
0.80	5

EXAMPLE 5.15

Obtaining an Empirical Formula from Experimental Data

A laboratory analysis of aspirin determined the following mass percent composition:
 C 60.00%
 H 4.40%
 O 35.52%
 Find the empirical formula.

GIVEN: In a 100-g sample, 60.00 g C, 4.40 g H, 35.52 g O.

Find: empirical formula.

$$60.00 \text{ g C} \times \frac{1 \text{ mol C}}{12.01 \text{ g C}} = 5.00 \text{ mol C}$$

$$4.40 \text{ g H} \times \frac{1 \text{ mol H}}{1.008 \text{ g H}} = 4.34 \text{ mol H}$$

$$35.52 \text{ g O} \times \frac{1 \text{ mol O}}{16.00 \text{ g O}} = 2.22 \text{ mol O}$$



The correct empirical formula is $\text{C}_9\text{H}_8\text{O}_4$.

FOR PRACTICE 5.15

Aspirin has the following mass percent composition:

... C 75.00%, H 5.80%, O 19.12%.

What is the empirical formula of aspirin?

Problem Solving Empirical Formula Answer Sheet

Arshad Iqbal



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