
Mastering Biology Ch 04 HW

Most organic compounds contain carbon and _____. - answer Hydrogen

What is the molar ratio of methionine to glycine in the samples? - answer 1.8×10^{-3} mole of methionine per mole of glycine

How many molecules of glycine are present in 1.0 mole of glycine? - answer 6.02×10^{23} molecules

For every 1.0 mole of glycine in the sample, how many molecules of methionine are present? - answer 1.08×10^{21} molecules of methionine

Which amino acid is present in higher amounts than glycine in the samples? - answer Alanine

If there is 1.0 mole of glycine present in the sample, how many more molecules of alanine are present? - answer 6.02×10^{22}

If one mole each of CH_4 , NH_3 , H_2S , and CO_2 is added to 1 liter of water in a flask (1 liter of water = 55.5 moles of H_2O), how many moles of hydrogen, carbon, oxygen, nitrogen, and sulfur are in the flask? Round your answers to the nearest whole number.
- answer Hydrogen-120
Carbon-2
Oxygen-58
Nitrogen-1
Sulfur-1

Glycine's molecular formula is $\text{C}_2\text{H}_5\text{NO}_2$. How many moles of each element would be needed to make 1.0 mole of glycine? - answer 2 moles carbon, 5 moles hydrogen, 1 mole nitrogen, and 2 moles oxygen

What is the maximum number of moles of glycine ($\text{C}_2\text{H}_5\text{NO}_2$) that could be made in the flask if no other molecules were made? - answer 1 mole of glycine

If only serine ($\text{C}_3\text{H}_7\text{NO}_3$) was made, which element would be used up first in the flask? - answer Carbon

What is the maximum number of moles of serine that could be made in the flask if no other molecules were made? - answer $2/3$ (0.67) of a mole of serine

If only methionine ($\text{C}_5\text{H}_{11}\text{NO}_2\text{S}$) was made, which element would be used up first? - answer Carbon

Mastering Chemistry Answers Ch 4

SA Dillow



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