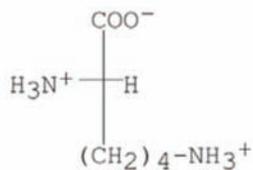


Session #30: Homework Solutions

Problem #1

Draw the form of L-lysine which is present at biological pH.

Solution



Problem #2

What is the net charge of arginine in a solution of pH 1.0?

Solution

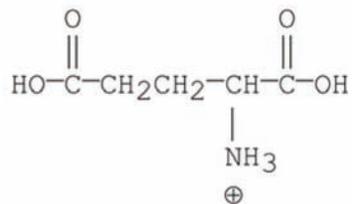
+2

Problem #3

Draw the form in which glutamate exists at pH = 0.

Solution

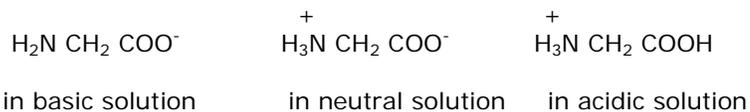
At pH = 0, groups will be in their acidic form:



Problem #4

Draw structures for the forms of glycine present in basic, neutral, and acidic solutions.

Solution



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