

Marks
7

- The pK_a of formic acid, HCO_2H , is 3.77. What is the pH of a 0.20 M solution of formic acid?

pH =

Give the equation for the reaction of formic acid with solid sodium hydroxide.

Calculate the ratio of formate ion / formic acid required to give a buffer of pH 4.00.

Answer:

What amount (in mol) of sodium hydroxide must be added to 100.0 mL of 0.20 M HCO_2H to prepare a solution buffered at pH 4.00?

Answer: