

Marks
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- The K_a of benzoic acid is 6.3×10^{-5} M at 25 °C.

Calculate the pH of a 0.0100 M aqueous solution of sodium benzoate (C_6H_5COONa).

Answer:

A buffer solution is prepared by adding 375 mL of this 0.0100 M aqueous solution of sodium benzoate to 225 mL of 0.0200 M aqueous benzoic acid. Calculate the pH of the buffer solution.

Answer: