



2. What must the concentration be for a solution of nitrous acid ( $HNO_2$ ,  $pK_a = 3.39$ ) to have a pH of 2.00 at 25 °C?

3. What mass of hydrazoic acid ( $HN_3$ ,  $pK_a = 4.72$ ) would you have to dissolve in 250. mL water to give a solution with a pH of 2.72 at 25 °C?