

- Calculate the pH of a solution that is 0.010 M in benzoic acid, C_6H_5COOH , and 0.010 M in $C_6H_5CO_2Na$. The K_a of benzoic acid is 6.4×10^{-5} M.

4

Answer:

Would this solution make a good buffer system? Give reasons for your answer?

- The gases NO_2 and N_2O_4 are in equilibrium according to the following equation.



In which direction will the reaction move when the following changes are made?

The pressure is increased by decreasing the volume.

2

The temperature is increased.