**Marks
5**

Write the equation for the reaction that occurs when benzoic acid reacts with ammonia?

Write the expression for the equilibrium constant for the reaction of benzoic acid with ammonia?

What is the value of the equilibrium constant for the reaction of benzoic acid with ammonia? Hint: multiply the above expression by $[H^+]/[H^+]$.

Answer:

What are the major species in the solution that results from adding together equal amounts of solutions A and B?