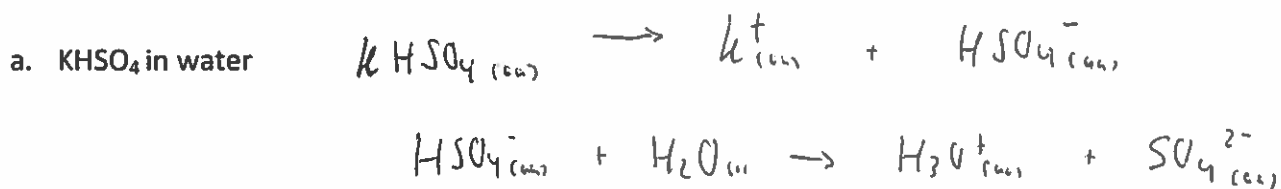


KEY

Practice on the Modified Arrhenius theory

1. Use the modified Arrhenius theory to suggest a chemical reaction equation to explain the acidic properties of each of the following solutions:



- b. Hydrofluoric acid in water

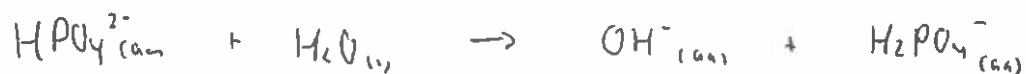


- c.  $\text{HNO}_3$  in water

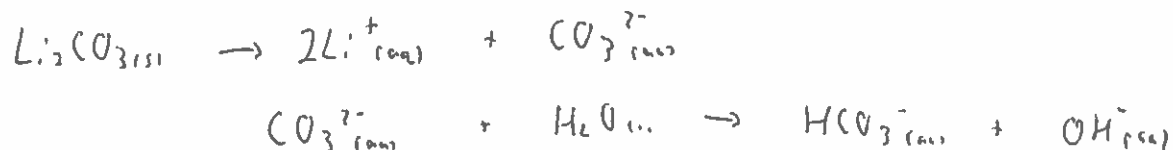


2. Use the modified Arrhenius theory to suggest a chemical reaction equation to explain the basic properties of each of the following solutions:

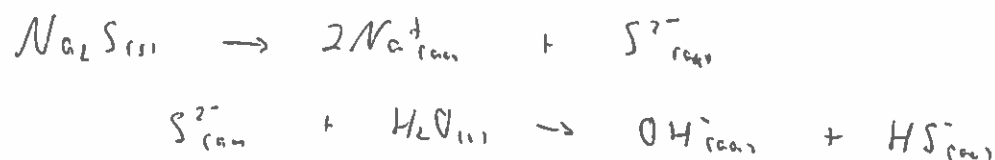
- a. Hydrogen phosphate ion in water



- b. lithium carbonate in water



- c. sodium sulfide in water



- d. ammonia in water

