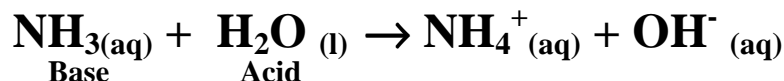
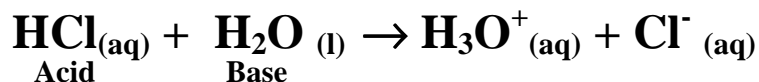


BRONSTED-LOWRY THEORY OR ACIDS AND BASES

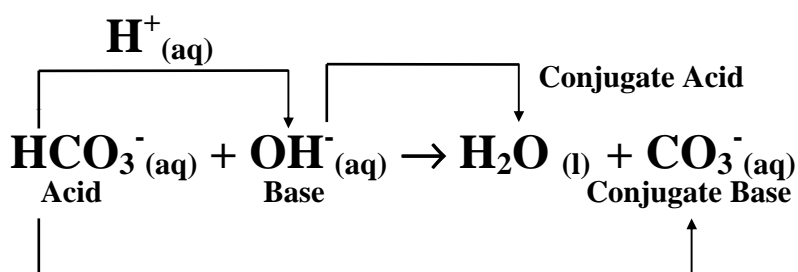
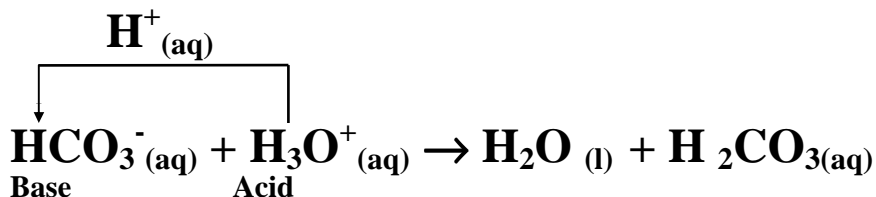
- **Johannes Bronsted and Thomas Lowry independently focused on the role of an acid or a base in a reaction rather than of the properties on their aqueous solutions**
 - **defines an acid as a proton donor**
 - **defines a base as a proton acceptor**

Example:



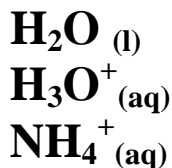
- **A substance can only be described as a Bronsted-Lowry acid or a base for a specific reaction NOT as a general property of the substance**

- Substances capable of reacting as an acid in one reaction and a base in another reaction are referred to as *AMPHIPROTIC*
- Example:

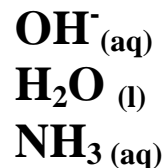


- When a proton is removed from a Bronsted-Lowry acid, the product formed is referred to as the acid's conjugate base
- When a proton is gained by a Bronsted-Lowry base, the product formed is referred to as the base's conjugate acid

Conjugate Acid



Conjugate Base



- According to the Bronsted-Lowry theory, in a neutralization reaction a proton is transferred from the strongest acid to the strongest base