

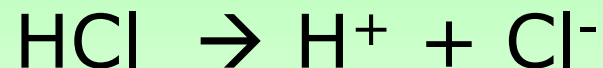
ACIDS & BASES: REVIEW

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1. Arrhenius



- **acid** – molecular compounds which ionize and release H^+ ions



- **base** – ionic compounds which dissociate and release OH^- ions

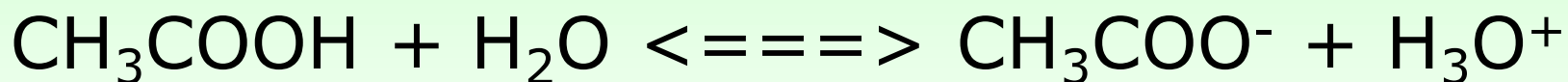


ACIDS & BASES: REVIEW

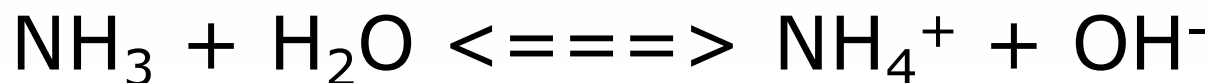


2. Bronsted-Lowry

- **acid** – compounds donate a proton to water to form H_3O^+



- **base** – compounds receive a proton from water to form OH^-

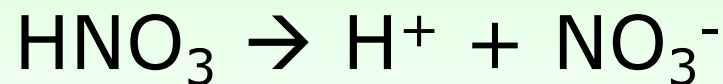


ACIDS & BASES: REVIEW

Strong Acids and Bases



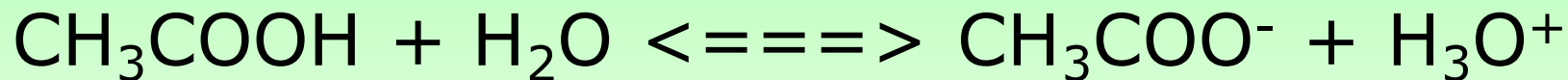
Acids and bases are considered **strong** when they almost fully ionize or dissociate in water (essentially 100%).



ACIDS & BASES: REVIEW

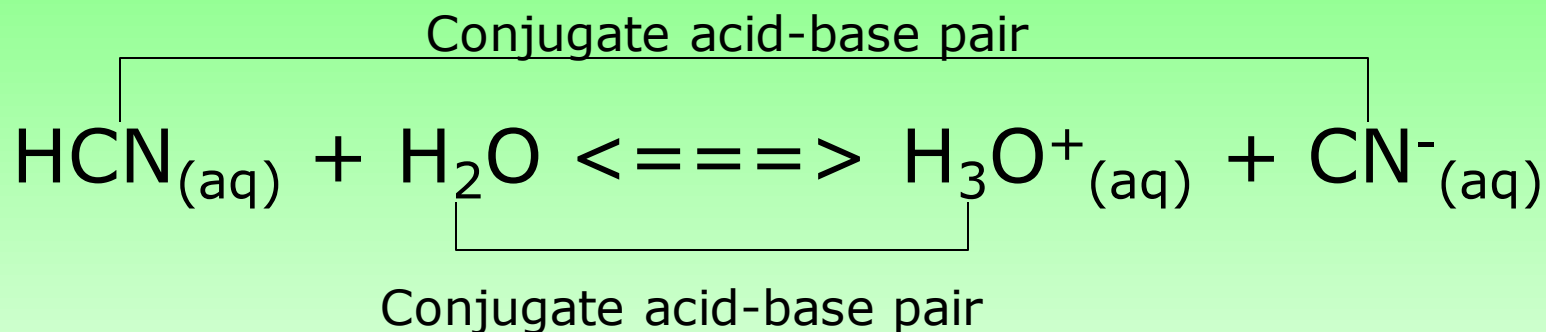
Weak Acids and Bases

Acids and bases are considered **weak** when they poorly ionize or dissociate in water (much lower than 100%).



ACIDS & BASES: REVIEW

Conjugate Acids and Bases



ACIDS & BASES: REVIEW

Conjugate Acids and Bases

1. What are the conjugate bases of HNO_3 and HSO_4^- ?



2. What are the formulas of the conjugate acids of OH^- and PO_4^{3-} ?

