Dissolved *Dissociated*

$$NaCl_{(s)} \xrightarrow{H_2O} NaCl_{(aq)} \xrightarrow{\Delta t} Na^+ + Cl^-$$

Strong Electrolyte
Conducts Electricity

Dissolved *No Dissociation*

$$C_6H_{12}O_{6(s)} \xrightarrow{H_2O} C_6H_{12}O_{6(aq)} \xrightarrow{\Delta t} C_6H_{12}O_{6(aq)}$$

Sugar

Non-electrolyte
Electrical nonconductor

Dissolved ***Partial Dissociation***

$$C_2H_4O_{2(l)} \xrightarrow{H_2O} C_2H_4O_{2(aq)} \xrightarrow{\Delta t} \begin{cases} C_2H_4O_{2(aq)} & (95\%) \\ H^+ & (2.5\%) \\ C_2H_3O_2^- & (2.5\%) \end{cases}$$

Weak electrolyte