

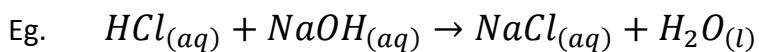
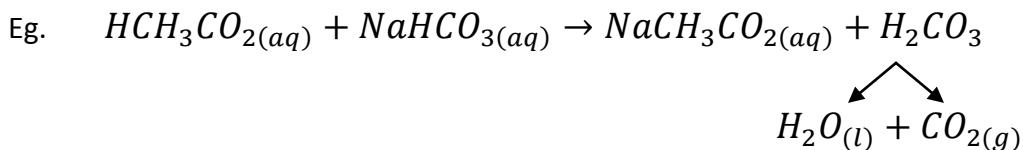
SCH 3U

ACID-BASE REACTIONS

NEUTRALIZATION:



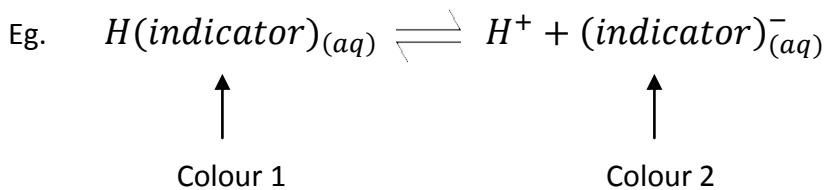
-double displacement reaction



-no visible signs that a reaction occurs, therefore use an acid-base indicator

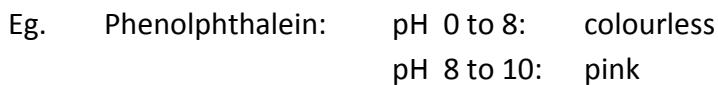
-changes colour in acids and bases

-most indicators are weak, monoprotic acids



In an acid, reaction goes to the left.

In a base, reaction goes to the right.



STOICHIOMETRY

A. FINDING CONCENTRATION

13.84 mL of $\text{HCl}_{(\text{aq})}$ just neutralizes 25.00 mL of a 0.1000 mol/L solution of $\text{NaOH}_{(\text{aq})}$. What is the concentration of the $\text{HCl}_{(\text{aq})}$?

- Write a balanced chemical reaction
- Write givens under compounds
- Determine mol of known
- Determine mol of unknown
- Determine [] of unknown.

B. FINDING VOLUME

What volume of 0.250 mol/L sulfuric acid is needed to react completely with 37.2 mL of 0.650 mol/L potassium hydroxide?