

Reactions in Aqueous solution

- sodium chloride dissolves in water.
- it will produce ions surrounded by water molecules

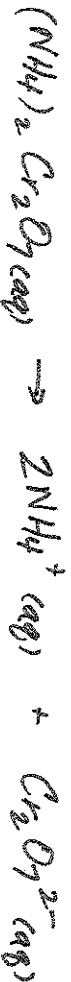


SECTION 11.3 REACTIONS IN SOLUTION

Dissociation Equations

- This is a process not a chemical reaction.
- ionic compounds break into cations & anions.
- must be balanced by charge & by atom.

Examples:

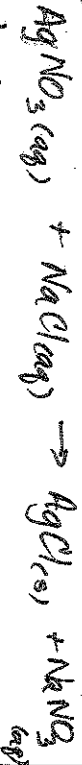


ratio of ions depends on chemical formula.

Reactions in Solution Single and Double Displacement

(1) Writing Complete and Net Ionic Equations

Complete ionic equation involves dissociation of all compounds w. good solubility.



complete ionic

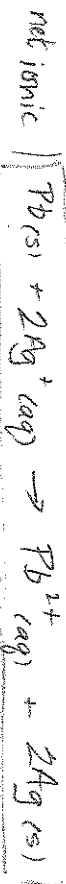


- notice that sodium & nitrate remain unchanged these are called spectator ions and can be eliminated to generate net ionic equation.

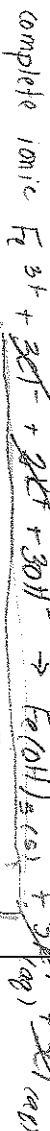
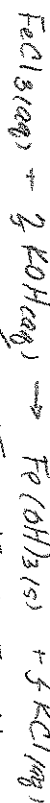


EXAMPLES

1 Lead & silver nitrate



2 iron (III) chloride and potassium hydroxide react.



3 Barium hydroxide reacts with sulfuric acid.

