

CHAPTER 8 – ACIDS & BASES

Section 8.1-Understanding Acids & Bases

Properties of Pure & Aqueous Substances

| Substance | Conductivity | | | Liquid |
|--------------------------|--------------|--------|---------|-----------|
| | Solid | Liquid | Aqueous | Aqueous |
| Most molecular compounds | No | No | No | No Effect |
| Most Ionic compounds | No | Yes | Yes | No Effect |
| Acids | No | No | Yes | Blue-→Red |
| Bases | No | Yes | Yes | Red-→Blue |

- $\text{NaOH}_{(s)} \rightarrow \text{Na}^+_{(aq)} + \text{OH}^-_{(aq)}$ similar to ionic compounds
- acids in liquids are still showing acid's molecular nature
- something happens when a solid acid is dissolved in water i.e.
 $\text{HCl}_{(g)} \rightarrow \text{H}^+_{(aq)} + \text{Cl}^-_{(aq)}$
- Arrhenius hypothesized that bases will dissociate into individual positive & negative ions
e.g. $\text{Ba}(\text{OH})_{2(s)} \rightarrow \text{Ba}^{+2}_{(aq)} + 2\text{OH}^-_{(aq)}$
- Arrhenius also theorized that acids first dissolve as individual molecules and then ionize into H^+ and X^- in solution
e.g. $\text{HCl}_{(g)} \rightarrow \text{H}^+_{(aq)} + \text{Cl}^-_{(aq)}$

Sample Problem 1

Chapter 8 Solutions Acids Bases Section 82 Answers

LM Reder



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