

## **6 Reactions in Aqueous Solutions**

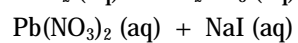
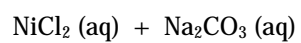
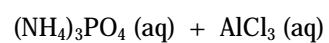
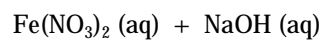
**Ionic Compound**

**Ions in Solution**

Na<sup>+</sup>

Cl<sup>-</sup>

## Solubility Rules for Some Common Salts in Water



### double displacement reactions



A

X

B

Y

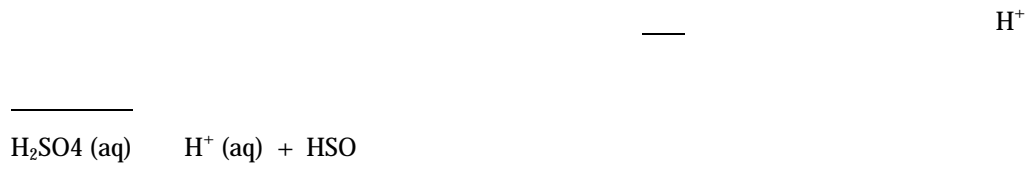
## 6.2 Acids and Bases

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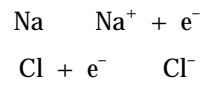
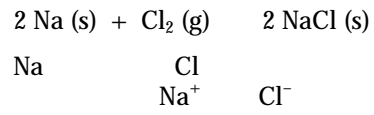


*HCl, HBr, HI, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, and HClO<sub>4</sub>*

### 6.2.1 Dissociation of Acids



### 6.3 Oxidation Reduction Reactions

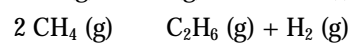
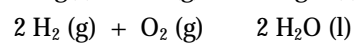
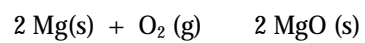


**Oxidation**

**Reduction**

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### 6.4.2 Synthesis Reactions



### 6.4.3 Decomposition Reactions

decomposition reactions

