

CHE 111 - Extra Practice - Ch 7c

Ionic and Net Ionic Reactions

Name: _____

Date: _____

Strong Electrolyte	Weak Electrolyte	Nonelectrolyte
Dissociate 100%	Dissociate < 10%	Do not dissociate
→	↔	
Strong Acids	Weak Acids	Molecular Compounds
Strong Bases	Weak Bases	Ionic - Insoluble (s)
Ionic - Soluble (aq)		
Written as Ions	Written as Molecules	Written as Molecules

1. Classify each of the following compounds as either a (S)trong electrolyte, (W)eak electrolyte or (N)onelectrolyte.

1(a) HF _____ **WE** _____

1(b) NaOH 1(b) _____ SE _____

1(c) BaCl₂ 1(c) _____ **SE** _____

1(d) H₂SO₄ 1(d) _____ SE _____

1(e) BaCO₃ 1(e) NE

1(f) CaSO₄ 1(f) NE

1(g) Zn(C₂H₃O₂)₂ 1(g) _____ **SE** _____

1(h) PbCl₂ 1(h) NE

1(j) Al₂O₃ 1(j) _____ NE _____

1(k) KOH 1(k) SE

1(1) **KNO₃** 1(1) _____ **SE** _____

1(m) AgCl

$\text{I}(\text{n}) \rightarrow \text{C}_6\text{H}_{12}\text{O}_6$

(a) WE (b) SE (c) SE (d) SE (e) NE (f) NE (g) SE (h) NE (i) NE (j) NE (k) SE (l) SE (m) NE (n) NE

(a) WE (b) SE (c) SE (d) SE (e) NE (f) NE (g) SE (h) NE (i) NE (j) NE (k) SE (l) SE (m) NE (n) NE

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Molecular Equation:

- Write everything as molecules or compounds.
- Include states.
- Balance the reaction.

Total Ionic Equation:

- Write SE as ions. Include charges and states.
- Write WE and Nonelectrolytes as molecules. Include states.

Net Ionic Equation:

- Only include atoms, ions, and molecules that change states or charges.
- Do **not** include (cross out) spectator ions.
- Include states and balance the reaction.

On a separate sheet of paper write the Molecular, Ionic and Net Ionic equations for each of the following reactions.

