ANSWERS TO "TRY YOURSELF" PROBLEMS FROM STUDY SECTION 3.3

Try Yourself 3.4

Which one of the compounds listed below is water soluble?

a) CuS b) $Fe_3(PO_4)_2$ c) $Ba(NO_3)_2$ d) $Mg(OH)_2$

Answer:

 $Ba(NO_3)_2$

Calsium nitrate dehydrate is dissolved in water. What ions are present in solution?

- a) Ca^{2+} and $(NO_3)^{2-}$
- b) Ca^{2+} and $2NO_3^{-}$
- c) Ca and 2NO₃
- d) Ca⁺ and NO₃⁻

Answer:

b) Ca^{2+} and $2NO_3^{-}$

Try Yourself 3.5

Predict if each of the following ionic compounds are water soluble or not. If it is water soluble, write down the formulas of the ions in solution.

a) LiNO₃ b) CaCl₂ c) Cu(OH)₂ d) NaCH₃CO₂

Answer:

- a) LiNO₃ Soluble, Li^+ and NO_3^-
- b) $CaCl_2$ Soluble, Ca^{2+} and $2Cl^{-}$
- c) $Cu(OH)_2$ Not soluble, no ions in solution.
- d) NaCH₃CO₂ Soluble, Na⁺ and CH₃CO₂⁻