

**Chemistry 12  
Homework Assignment 3-1**

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Name KEY  
Due Date \_\_\_\_\_

**Correct and Hand In By** \_\_\_\_\_

*This worksheet covers material from Tutorials 7 and 8, class notes and SW pages 73-87.*  
**These questions will be marked and the mark recorded in the "Homework" section in the mark book. One set of corrections will be allowed. Get help if you need it.**

1. Decide whether each of the following are electrolytes or not (yes or no) when dissolved in water. (5 marks)
  - a)  $\text{AgNO}_3$  ..... yes
  - 5) b)  $\text{CH}_3\text{CH}_2\text{OH}$  ..... no
  - c)  $\text{NH}_4\text{Cl}$  ..... yes
  - d)  $\text{CH}_3\text{CH}_2\text{COOH}$  ..... yes
  - e)  $\text{Ba}(\text{OH})_2$  ..... yes
2. Give three examples of **ionic** compounds (formulas must be correct) (3 marks)
  - 3) 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_
- 2) 3. Give two examples of **molecular** compounds (formulas must be correct) (2 marks)
  - 1. \_\_\_\_\_ 2. \_\_\_\_\_
- 1) 4. Define a **saturated solution** (1 mark) \_\_\_\_\_
- 1) 5. Solubility is the equilibrium concentration of a substance in solution at a given temperature. (1 mark)
- 2) 6. Write a net ionic equation (balanced, all charges, subscripts, arrow(s) correct, correct order etc.) for **dissolving** ammonium sulphate. (2 marks)
 

$\frac{14}{14}$

$$\text{(NH}_4\text{)}_2\text{SO}_4 \text{ (s)} \rightarrow 2\text{NH}_4^+ \text{ (aq)} + \text{SO}_4^{2-} \text{ (aq)}$$