

**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) AgNO_3 yes
 - 5) b) $\text{CH}_3\text{CH}_2\text{OH}$ no
 - c) NH_4Cl 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)

$\frac{14}{14}$

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