Precipitation

- 1 You are preparing to mix aqueous solutions of sodium phosphate and calcium nitrate. Firstly, what is the chemical formula of sodium phosphate?
 - A NaPO4
 - B Na2PO4
 - C Na3PO4
 - D None of the above
- 2 Secondly, what is the chemical formula of calcium nitrate?
 - A CaNO3
 - B Ca(NO3)2
 - C Ca2(NO3)3
 - D None of the above
- 3 Finally, when the aqueous solutions of sodium phosphate and calcium nitrate are mixed, a precipitate forms. What is the chemical formula of that precipitate?
 - A Na3PO4
 - B Ca(NO3)2
 - C NaNO3
 - D Ca3(PO4)2
- 4 The Na3PO4(aq) solution that you prepared is 0.10 M and has a volume of 100 mL. How many moles of Na+(aq) are in the solution?
 - A 0.1
 - B 0.01
 - C 0.3
 - D 0.03
 - E None of the above
- 5 What is the balanced net ionic chemical equation for the reaction between sodium phosphate and calcium nitrate?
 - A Na3PO4(aq) + Ca(NO3)2(aq) \rightarrow Ca3(PO4)2(s) + NaNO3(aq)
 - B 2 Na3PO4(aq) + 3 Ca(NO3)2(aq) -> Ca3(PO4)2(s) + 6 NaNO3(aq)
 - C PO43-(aq) + Ca2+(aq) -> Ca3(PO4)2(s)
 - D 2 PO43-(aq) + 3 Ca2+(aq) \rightarrow Ca3(PO4)2(s)
- 6 When aqueous solutions of calcium chloride and sodium sulfate are mixed, a precipitate forms. What is the ionic compound that precipitates?
 - A NaCl
 - B CaSO4
 - C CaCl2
 - D None of the above

10/5/2008 10:53:23 AM

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- 7 When aqueous solutions of calcium chloride and sodium sulfate are mixed, a precipitate forms. Will the resulting solution conduct electricity?
 - A Yes
 - B No
 - C Further information needed