

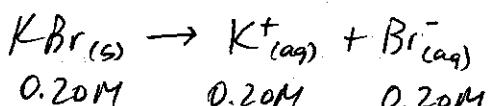
Dissociation Equations/Ion ConcentrationsName: Key

Write dissociation equations for each of the following ionic compounds (salts) and determine the concentration of each ion in the resulting solution.

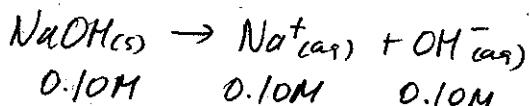
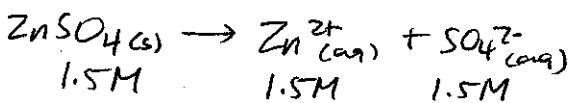
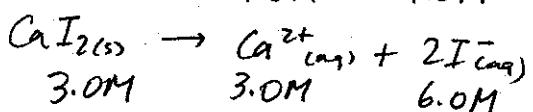
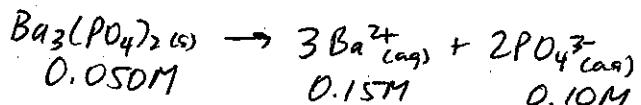
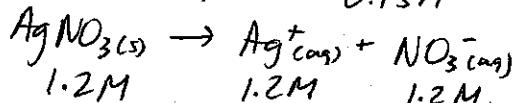
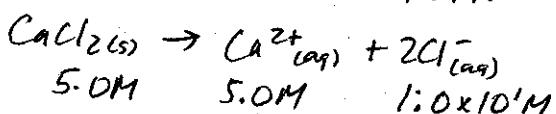
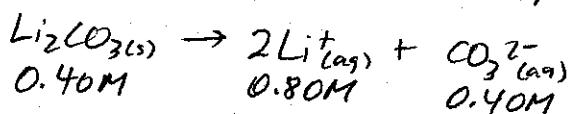
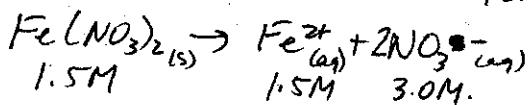
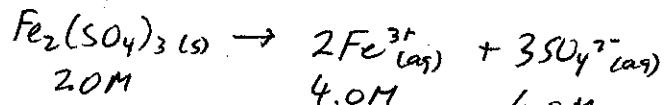
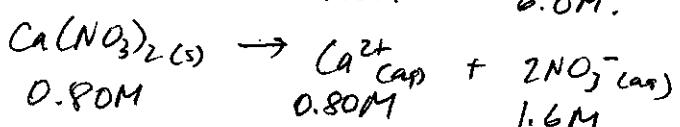
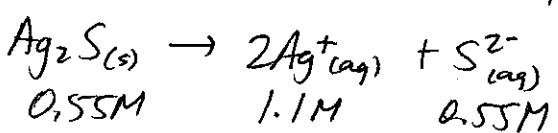
Example:



1. 0.20 M KBr



2. 0.10 M NaOH

3. 1.5 M ZnSO₄4. 3.0 M CaI₂5. 0.050 M Ba₃(PO₄)₂6. 1.2 M AgNO₃7. 5.0 M CaCl₂8. 0.40 M Li₂CO₃9. 1.5 M Fe(NO₃)₂10. 2.0 M Fe₂(SO₄)₃11. 0.80 M Ca(NO₃)₂12. 0.55 M Ag₂S

13. 0.60 M AlBr_3 $\text{AlBr}_3(s) \rightarrow \text{Al}^{3+} + 3\text{Br}^-$
 0.60M 0.60M 1.8M
14. 1.25 M Mg(OH)_2 $\text{Mg(OH)}_2(s) \rightarrow \text{Mg}^{2+}_{(aq)} + 2\text{OH}^-_{(aq)}$
 1.25M 1.25M 2.50M
15. 0.70 M NH_4Cl $\text{NH}_4\text{Cl}(s) \rightarrow \text{NH}_4^+_{(aq)} + \text{Cl}^-_{(aq)}$
 0.70M 0.70M 0.70M
16. 2.20 M Na_2CO_3 $\text{Na}_2\text{CO}_3(s) \rightarrow 2\text{Na}^+_{(aq)} + \text{CO}_3^{2-}_{(aq)}$
 2.20M 4.40M 2.20M
17. 1.65 M $(\text{NH}_4)_2\text{SO}_4$ $(\text{NH}_4)_2\text{SO}_4(s) \rightarrow 2\text{NH}_4^+_{(aq)} + \text{SO}_4^{2-}_{(aq)}$
 1.65M 3.30M 1.65M
18. 0.40 M $\text{Pb}_3(\text{PO}_4)_2$ $\text{Pb}_3(\text{PO}_4)_2(s) \rightarrow 3\text{Pb}^{2+}_{(aq)} + 2\text{PO}_4^{3-}_{(aq)}$
 0.40M 1.2M 0.80M
19. 1.80 M MgCO_3 $\text{MgCO}_3(s) \rightarrow \text{Mg}^{2+}_{(aq)} + \text{CO}_3^{2-}_{(aq)}$
 1.80M 1.80M 1.80M
20. 0.35 M K_2SO_4 $\text{K}_2\text{SO}_4(s) \rightarrow 2\text{K}^+_{(aq)} + \text{SO}_4^{2-}_{(aq)}$
 0.35M 0.70M 0.35M
21. 0.20 M MnO_2 $\text{MnO}_2(s) \rightarrow \text{Mn}^{4+}_{(aq)} + 2\text{O}^{2-}_{(aq)}$
 0.20M 0.20M 0.40M
22. 2.50 M Strontium iodide $\text{SrI}_2(s) \rightarrow \text{Sr}^{2+}_{(aq)} + 2\text{I}^-_{(aq)}$
 2.50M 2.50M 5.00M
23. 0.10 M Barium sulfide $\text{BaS}(s) \rightarrow \text{Ba}^{2+}_{(aq)} + \text{S}^{2-}_{(aq)}$
 0.10M 0.10M 0.10M
24. 1.60 M Cesium chloride $\text{CsCl}(s) \rightarrow \text{Cs}^+_{(aq)} + \text{Cl}^-_{(aq)}$
 1.60M 1.60M 1.60M
25. 0.85 M Beryllium hydroxide $\text{Be}(\text{OH})_2(s) \rightarrow \text{Be}^{2+}_{(aq)} + 2\text{OH}^-_{(aq)}$
 0.85M 0.85M 1.7M