அரசுமேல்நிலைப்பள்ளி,கல்லமநாயக்கர்பட்டி.

12.8.அயனிச்சமநிலை -----K_{sp} காண்க

விடுபட்ட கட்டத்தினை நிரப்புக

1) $BaSO_{4(S)} \leftrightarrow \square\, Ba^{2+}_{(aq)} + \square\, SO_4^{2-}{}_{(aq)}$

S $\square$S $\square$S

$K_{sp} = [Ba^{2+}][SO_4^{2-}] = (\square\, S)\ X(\square\, S) = \square\, S$

2. $Ag_2CrO_{4(S)} \leftrightarrow \square\, Ag^{+}_{(aq)} + \square\, CrO_4^{2-}{}_{(aq)}$

S $\square$S $\square$S

$K_{sp} = [Ag^{+}][CrO_4^{2-}] = (\square\, S)\ X(\square\, S) = \square\, S$

3. $Ca_3(PO_4)_2 \leftrightarrow \square\, Ca^{2+}_{(aq)} + \square\, PO_4^{3-}{}_{(aq)}$

S $\square$S $\square$S

$K_{sp} = [Ca^{2+}][PO_4^{3-}] = (\square\, S)\ X\ (\square\, S) = \square\, S$

LIVEWORKSHEETS

4. $Hg_2C\ell_{2(s)} \leftrightarrow \square\, Hg_2^{2+}{}_{(aq)} + \square\, C\ell^-{}_{(aq)}$

S $\square$S $\square$S

$K_{sp} = [Hg_2^{2+}]\,[C\ell^-] = (\square\, S) \times (\square\, S) = \square\, S$

5. $Ag_2C_2O_{4\,(s)} \leftrightarrow \square\, Ag^+{}_{(aq)} + \square\, C_2O_4^{2-}{}_{(aq)}$

S $\square$S $\square$S

$K_{sp} = [Ag^+][C_2O_4^{2-}] = (\square\, S) \times (\square\, S) = \square\, S$

6. $Ca(OH)_{2(s)} \leftrightarrow \square\, Ca^{2+}{}_{(aq)} + \square\, OH^{-1}{}_{(aq)}$

S $\square$S $\square$S

$k_{sp} = [Ca^{2+}]\,[OH^{-1}] = (\square\, S) \times (\square\, S) = \square\, S$

7. $AgC\ell_{(s)} \leftrightarrow \square\, Ag^+{}_{(aq)} + \square\, C\ell^-{}_{(aq)}$

S $\square$S $\square$S

$K_{sp} = [Ag^+]\,[C\ell^-] = (\square\, S) \times (\square\, S) = \square\, S$

LIVEWORKSHEETS

8. $CaF_{2(s)} \leftrightarrow \square Ca^{2+}_{(aq)} + \square F^{1-}_{(aq)}$

S $\square$ S $\square$ S

$K_{sp} = [Ca^{2+}]^{\square}[F^{-}]^{\square} = (\square S)^{\square} x (\square S)^{\square} = \square S^{\square}$

9. $PbI_{2\,(s)} \leftrightarrow \square Pb^{2+}_{(aq)} + \square I^{-}_{(aq)}$

S $\square$ S $\square$ S

$K_{sp} = [Pb^{2+}]^{\square}[I^{-}]^{\square} = (\square S)^{\square} x (\square S)^{\square} = \square S^{\square}$

10. $NY_{3(s)} \leftrightarrow \square N^{3+}_{(aq)} + \square Y^{-}_{(aq)}$

S $\square$ S $\square$ S

$K_{sp} = [N^{3+}]^{\square}[Y^{-}]^{\square} = (\square S)^{\square} x (\square S)^{\square} = \square S^{\square}$

LIVEWORKSHEETS