

WANT 2 M NaCl (aq) ← solution
 How much water ~~?~~ must be added to
 23.9 g NaCl to make a 2 M NaCl (aq) soln?

~~1 l~~ | ~~1 mole NaCl~~ | ~~23.9 g NaCl~~
~~2 mole NaCl~~ | ~~58 g NaCl~~ = 0.206 l

~~2 mole NaCl~~
~~1 l soln~~

Sep 29-7:37 AM

23.9 g NaCl 2 M — l

$$\frac{M}{l} = \frac{\text{Moles}}{l}$$

$$\frac{2}{1} = \frac{0.412 \text{ Moles}}{l}$$

$$\frac{l}{1} = \frac{0.412}{2} = 0.206 l$$

$$\frac{\text{Moles}}{l} = \frac{g}{MW}$$

$$= \frac{23.9}{58}$$

0.412 Moles NaCl

Sep 29-7:54 AM

Electrolyte → Need dum ions!

① Ionic! ⇒ M + NM

OR

② Very Polar (some cases) → can conduct.
RARE

Sep 29-7:58 AM

Net Ionic Equations X p25

molecular eqn $BaCl_2(aq) + K_2SO_4(aq) \rightarrow BaSO_4(s) + 2KCl(aq)$

complete ionic eqn $Ba^{+2}(aq) + \cancel{2Cl^{-}(aq)} + \cancel{2K^{+}(aq)} + SO_4^{-2}(aq) \rightarrow BaSO_4(s) + \cancel{2K^{+}(aq)} + \cancel{2Cl^{-}(aq)}$

Net Ionic Eqn $Ba^{+2}(aq) + SO_4^{-2}(aq) \rightarrow BaSO_4(s)$

Sep 29-8:07 AM

Ions

① Soluble Salts (p 125 Table 4.1)

② STRONG ACIDS (H^+ and)
 Cl^- , Br^- , I^- , SO_4^{2-} , NO_3^- , ClO_3^- , ClO_4^-

③ STRONG BASES

Group 1
Alkali

Group 2 → channel 2 = CBS
Alkaline earth
Ca, Sr, Ba

Sep 29-8:19 AM

HW

LAB DUE

AND

4.24

← break up into net ionic

Sep 29-8:25 AM