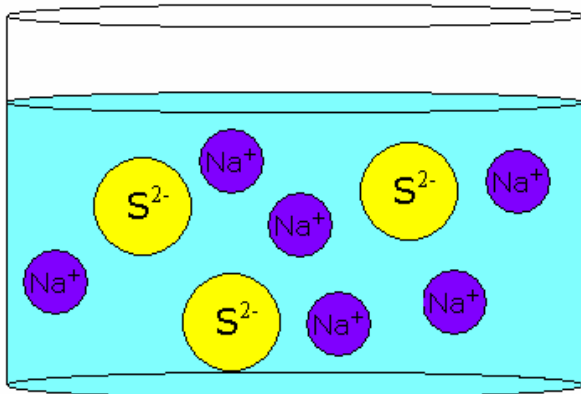


Gaasi teke

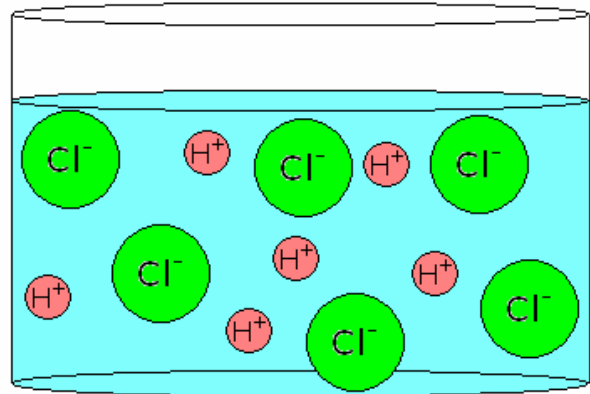
vahetusreaktsioon: hape + sool \rightarrow sool + hape

molekulaarvõrrand: $2 \text{HCl} + \text{Na}_2\text{S} \rightarrow 2 \text{NaCl} + \text{H}_2\text{S}\uparrow$

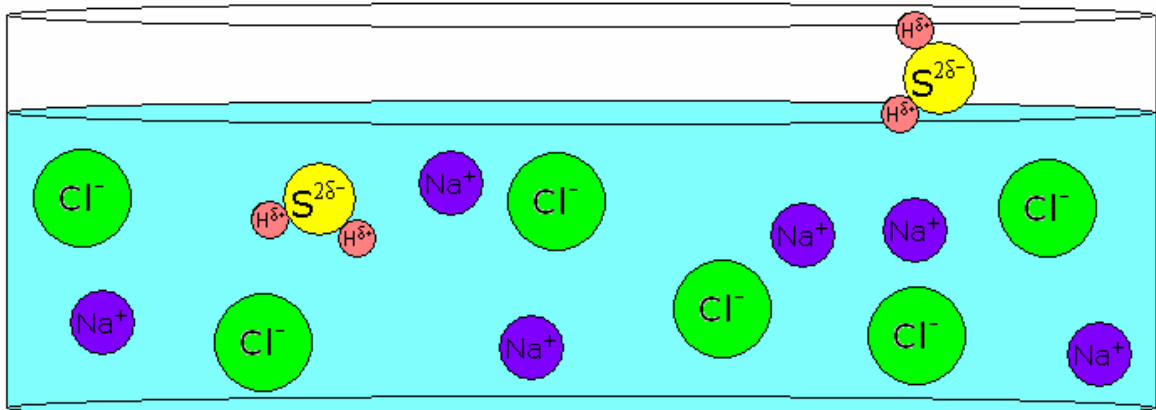
ioonvõrrandid:
 $2 \text{H}^+ + 2 \text{Cl}^- + 2 \text{Na}^+ + \text{S}^{2-} \rightarrow 2 \text{Na}^+ + 2 \text{Cl}^- + \text{H}_2\text{S}\uparrow$
 $2 \text{H}^+ + \text{S}^{2-} \rightarrow \text{H}_2\text{S}\uparrow$



naatriumsulfiidi lahus



vesinikkloriidhappe lahus



naatriumkloriidi lahus, divesiniksulfiid eraldub

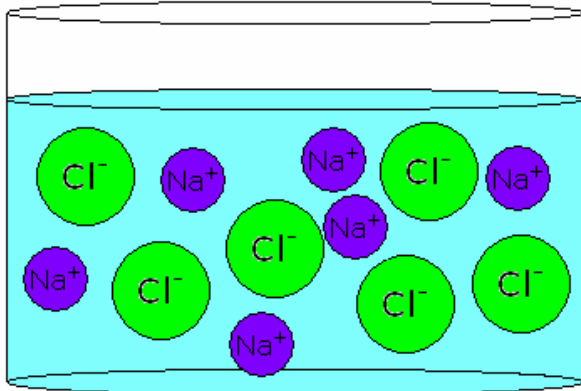
Sademe teke

vahetusreaktsioon: $\text{sool} + \text{sool} \rightarrow \text{sool} + \text{sool}$

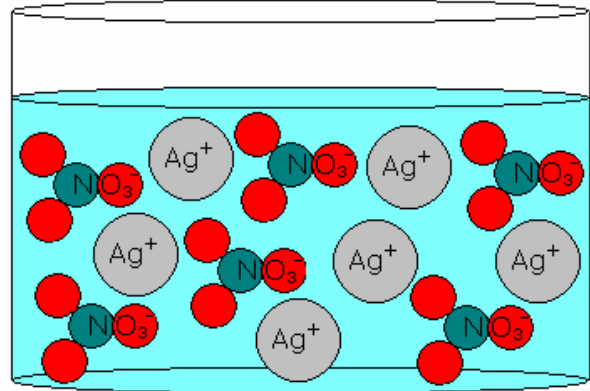
molekulaarvõrrand: $\text{NaCl} + \text{AgNO}_3 \rightarrow \text{AgCl} \downarrow + \text{NaNO}_3$

ioonvõrrandid: $\text{Na}^+ + \text{Cl}^- + \text{Ag}^+ + \text{NO}_3^- \rightarrow \text{AgCl} \downarrow + \text{Na}^+ + \text{NO}_3^-$

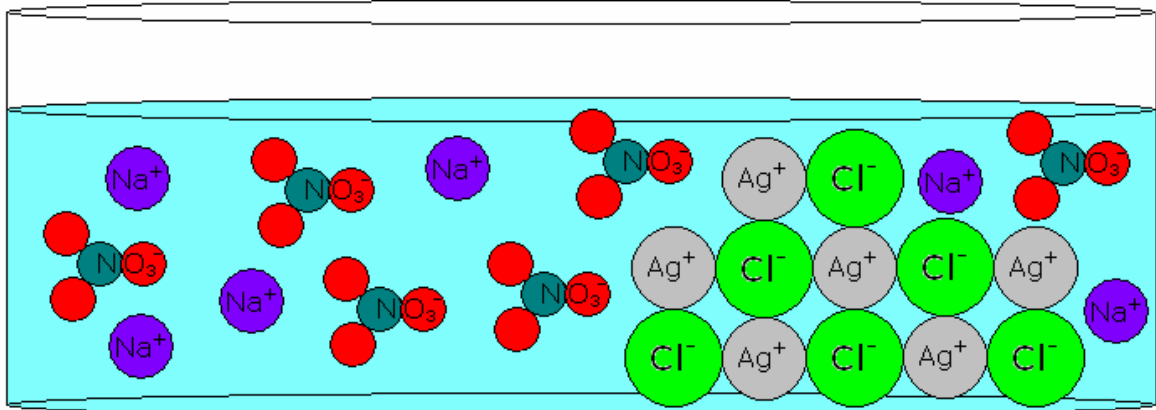
$\text{Cl}^- + \text{Ag}^+ \rightarrow \text{AgCl} \downarrow$



naatriumkloriidi lahus



hõbe(I)nitraadi lahus



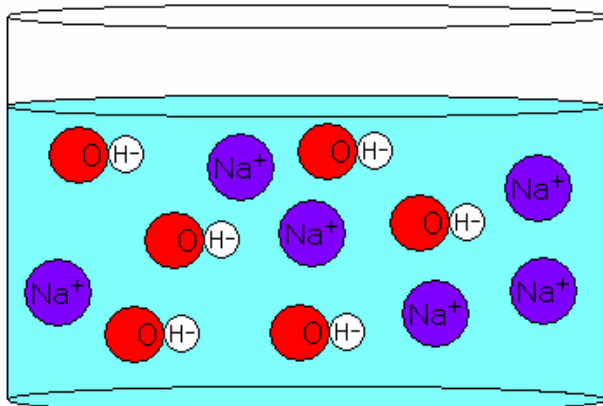
naatriumnitraadi lahus, hõbe(I)kloriidi sade

Nõrga elektrolüüdi teke

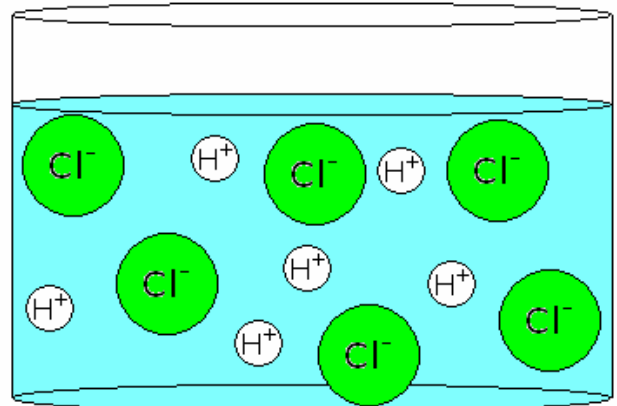
vahetusreaktsioon: alus + hape \rightarrow sool + vesi

molekulaarvõrrand: $\text{NaOH} + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O}$

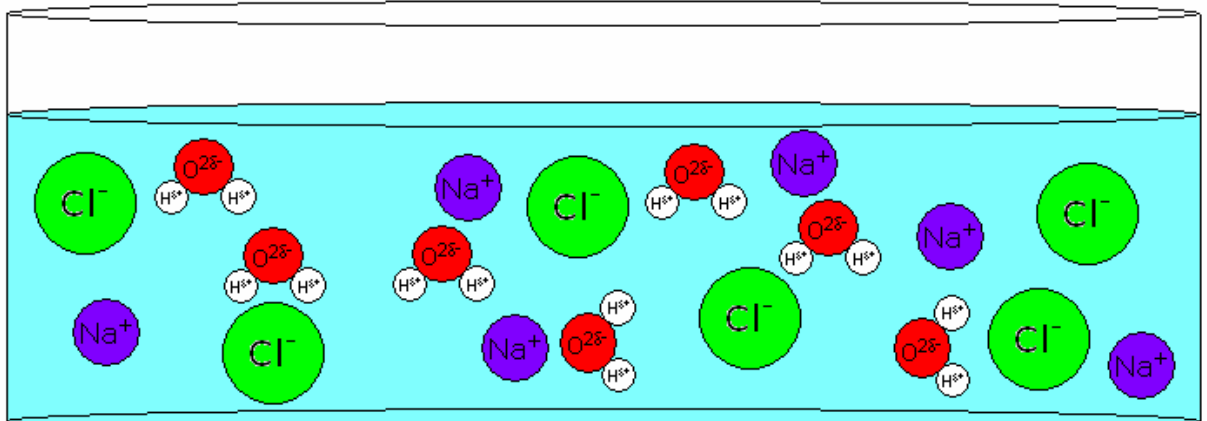
ioonvõrrandid:
 $\text{Na}^+ + \text{OH}^- + \text{H}^+ + \text{Cl}^- \rightarrow \text{Na}^+ + \text{Cl}^- + \text{H}_2\text{O}$
 $\text{OH}^- + \text{H}^+ \rightarrow \text{H}_2\text{O}$



naatriumhüdroksiidi lahus



vesinikkloriidhappe lahus



naatriumkloriidi lahus