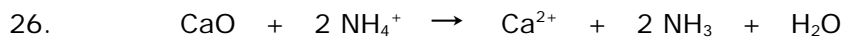


## Solvay

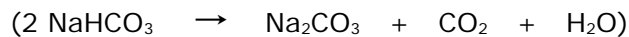
23. bindingstype in calciumoxide : ionbinding  
bindingstype in koolstofdioxidemoleculen : atoombinding



25. Filtreren.



27.  $X = \text{H}_2\text{O}$



28. -  $3,0 \times 10^5 \text{ ton Na}_2\text{CO}_3 = 3,0 \times 10^8 \text{ kg Na}_2\text{CO}_3 = 3,0 \times 10^{11} \text{ g Na}_2\text{CO}_3$   
-  $3,0 \times 10^{11} \text{ g Na}_2\text{CO}_3 = (3,0 \times 10^{11} / 106) \text{ mol} = 2,83 \times 10^9 \text{ mol Na}_2\text{CO}_3$   
- om  $2,83 \times 10^9 \text{ mol Na}_2\text{CO}_3$  te maken is nodig :  $2 \times 2,83 \times 10^9 \text{ mol NaCl}$   
=  $5,66 \times 10^9 \text{ mol NaCl}$   
- nodig :  $(5,66 \times 10^9 / 6,1) = 9,3 \times 10^8 \text{ L } 6,1 \text{ M NaCl-oplossing}$

29.  $\text{NH}_3$  en  $\text{CO}_2$