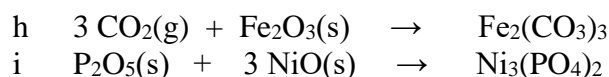


## Basischemie voor MLO Hoofdstuk 14 Zouten

- 1
  - a  $\text{PbSO}_4$
  - b  $\text{Ag}_2\text{CO}_3$
  - c  $\text{AgCl}$
  - d  $\text{Cu}(\text{OH})_2$
  - e  $\text{Ca}_3(\text{PO}_4)_2$
  - f  $\text{PbCO}_3$
  - g  $\text{AgBr}$
  - h  $\text{Ni}_3(\text{PO}_4)_2$
  - i  $\text{Fe}(\text{OH})_2$
  - j  $\text{HgCO}_3$
  
- 2
  - a  $\text{K}_2\text{SO}_4$
  - b  $\text{Ca}(\text{NO}_3)_2$
  - c  $\text{BaSO}_4$
  - d  $\text{NaCl}$
  - e  $\text{K}_3\text{PO}_4$
  - f  $\text{Na}_2\text{SO}_4$
  - g  $\text{CaBr}_2$
  - h  $\text{FeCl}_3$
  - i  $\text{Ni}_3(\text{PO}_4)_2$
  
- 3
  - a  $\text{SO}_3(\text{g}) + 2 \text{KOH}(\text{aq}) \rightarrow \text{K}_2\text{SO}_4(\text{aq}) + \text{H}_2\text{O}$
  - b  $\text{N}_2\text{O}_5(\text{g}) + \text{Ca}(\text{OH})_2(\text{aq}) \rightarrow \text{Ca}(\text{NO}_3)_2(\text{aq}) + \text{H}_2\text{O}$
  - c  $\text{SO}_3(\text{g}) + \text{Ba}(\text{OH})_2(\text{aq}) \rightarrow \text{BaSO}_4(\text{s}) + \text{H}_2\text{O}$
  - d  $\text{CO}_2(\text{g}) + 2 \text{NaOH}(\text{aq}) \rightarrow \text{Na}_2\text{CO}_3(\text{aq}) + \text{H}_2\text{O}$
  - e  $\text{SO}_2(\text{g}) + 2 \text{KOH}(\text{aq}) \rightarrow \text{K}_2\text{SO}_3(\text{aq}) + \text{H}_2\text{O}$
  - f  $\text{N}_2\text{O}_3(\text{g}) + 2 \text{NaOH}(\text{aq}) \rightarrow 2 \text{NaNO}_2(\text{aq}) + \text{H}_2\text{O}$
  - g  $\text{SO}_3(\text{g}) + \text{Ca}(\text{OH})_2(\text{aq}) \rightarrow \text{CaSO}_4(\text{s}) + \text{H}_2\text{O}$
  - h  $3 \text{CO}_2(\text{g}) + 2 \text{Fe}(\text{OH})_3(\text{s}) \rightarrow \text{Fe}_2(\text{CO}_3)_3(\text{s}) + 3 \text{H}_2\text{O}$
  - i  $\text{P}_2\text{O}_5(\text{s}) + 3 \text{Ni}(\text{OH})_2(\text{s}) \rightarrow \text{Ni}_3(\text{PO}_4)_2(\text{s}) + 3 \text{H}_2\text{O}$
  
- 4
  - a  $\text{H}_2\text{SO}_4(\text{aq}) + \text{K}_2\text{O}(\text{s}) \rightarrow \text{K}_2\text{SO}_4(\text{aq}) + \text{H}_2\text{O}$
  - b  $2 \text{HNO}_3(\text{aq}) + \text{CaO}(\text{s}) \rightarrow \text{Ca}(\text{NO}_3)_2(\text{aq}) + \text{H}_2\text{O}$
  - c  $\text{H}_2\text{SO}_4(\text{aq}) + \text{BaO}(\text{s}) \rightarrow \text{BaSO}_4(\text{s}) + \text{H}_2\text{O}$
  - d  $2 \text{HCl}(\text{aq}) + \text{Na}_2\text{O}(\text{s}) \rightarrow 2 \text{NaCl}(\text{aq}) + \text{H}_2\text{O}$
  - e  $2 \text{H}_3\text{PO}_4(\text{aq}) + 3 \text{K}_2\text{O}(\text{s}) \rightarrow 2 \text{K}_3\text{PO}_4(\text{aq}) + 3 \text{H}_2\text{O}$
  - f  $\text{H}_2\text{SO}_4(\text{aq}) + \text{Na}_2\text{O}(\text{s}) \rightarrow \text{Na}_2\text{SO}_4(\text{aq}) + \text{H}_2\text{O}$
  - g  $2 \text{HBr}(\text{aq}) + \text{CaO}(\text{s}) \rightarrow \text{CaBr}_2(\text{aq}) + \text{H}_2\text{O}$
  - h  $6 \text{HCl}(\text{aq}) + \text{Fe}_2\text{O}_3(\text{s}) \rightarrow 2 \text{FeCl}_3(\text{aq}) + 3 \text{H}_2\text{O}$
  - i  $2 \text{H}_3\text{PO}_4(\text{aq}) + 3 \text{NiO}(\text{s}) \rightarrow \text{Ni}_3(\text{PO}_4)_2(\text{s}) + \text{H}_2\text{O}$
  
- 5
  - a  $\text{SO}_3(\text{g}) + \text{K}_2\text{O}(\text{s}) \rightarrow \text{K}_2\text{SO}_4$
  - b  $\text{N}_2\text{O}_5(\text{g}) + \text{CaO}(\text{s}) \rightarrow \text{Ca}(\text{NO}_3)_2$
  - c  $\text{SO}_3(\text{g}) + \text{BaO}(\text{s}) \rightarrow \text{BaSO}_4$
  - d  $\text{CO}_2(\text{g}) + \text{Na}_2\text{O}(\text{s}) \rightarrow \text{Na}_2\text{CO}_3$
  - e  $\text{SO}_2(\text{g}) + \text{K}_2\text{O}(\text{s}) \rightarrow \text{K}_2\text{SO}_3$
  - f  $\text{N}_2\text{O}_3(\text{g}) + \text{Na}_2\text{O}(\text{s}) \rightarrow 2 \text{NaNO}_3$
  - g  $\text{SO}_3(\text{g}) + \text{CaO}(\text{s}) \rightarrow \text{CaSO}_4$



6 1,58 g

7 39,2 g

8 829 mg

9 200,0 mg

10 23,1%(m/m) water 76,9 %(m/m) droge stof

11 22,37%(m/m) water 77,63 %(m/m) droge stof

12 50,69%(m/m) droge stof 49,31%(m/m) water

13  $(\text{NH}_4)_2\text{SO}_4\text{Fe}_2(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$   
 $\text{K}_2\text{SO}_4\text{Al}_2(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$   
 $\text{K}_2\text{SO}_4\text{Cr}_2(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$

14 a  $\text{K}_2\text{SO}_4$  en  $\text{H}_2\text{SO}_4$  c  $\text{Na}_3\text{PO}_4$  en  $\text{H}_3\text{PO}_4$   
 b  $\text{Na}_2\text{CO}_3$  en  $\text{H}_2\text{CO}_3$  d  $\text{Ca}_3(\text{PO}_4)_2$  en  $\text{H}_3\text{PO}_4$

15 a  $\text{CaCl}_2$  en  $\text{Ca}(\text{OH})_2$  c  $\text{Al}(\text{OH})_3$  en  $\text{Al}_2(\text{CO}_3)_3$   
 b  $\text{Fe}(\text{OH})_3$  en  $\text{Fe}_2(\text{SO}_4)_3$  d  $\text{Ni}(\text{OH})_2$  en  $\text{NiBr}_2$

16 a  $\text{H}_3\text{O}^+ + \text{OH}^- \rightarrow 2 \text{H}_2\text{O}$   
 b  $\text{H}_3\text{O}^+ + \text{OH}^- \rightarrow 2 \text{H}_2\text{O}$   
 c  $\text{OH}^- + \text{H}_3\text{O}^+ \rightarrow 2 \text{H}_2\text{O}$   
 d  $\text{Pb}(\text{OH})_2(\text{s}) + 2 \text{H}_3\text{O}^+ \rightarrow \text{Pb}^{2+} + 4 \text{H}_2\text{O}$   
 e  $\text{HF} + \text{OH}^- \rightarrow \text{F}^- + \text{H}_2\text{O}$   
 f  $\text{H}_2\text{S} + \text{OH}^- \rightarrow \text{HS}^- + \text{H}_2\text{O}$   
 g  $\text{Al}(\text{OH})_3(\text{s}) + 3 \text{CH}_3\text{COOH} \rightarrow \text{Al}^{3+} + 3 \text{CH}_3\text{COO}^- + 3 \text{H}_2\text{O}$   
 h  $\text{Ba}(\text{OH})_2(\text{s}) + 2 \text{HCOOH} \rightarrow \text{Ba}^{2+} + 2 \text{HCOO}^- + 2 \text{H}_2\text{O}$

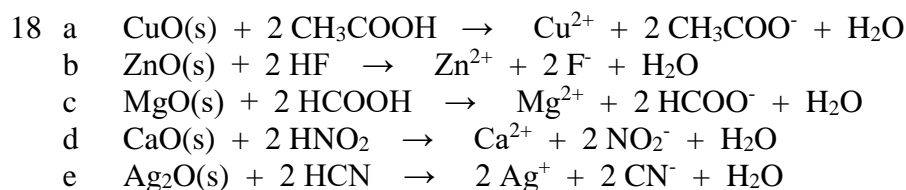
zouten:

a NaCl b  $\text{K}_2\text{SO}_4$  c  $\text{CaBr}_2$   
 d  $\text{Pb}(\text{NO}_3)_2$  e NaF f  $\text{K}_2\text{S}$   
 g  $\text{Al}(\text{CH}_3\text{COO})_3$  h  $\text{Ba}(\text{HCOO})_2$

17 a  $\text{ZnO}(\text{s}) + 2 \text{H}_3\text{O}^+ \rightarrow \text{Zn}^{2+} + 3 \text{H}_2\text{O}$   
 b  $\text{K}_2\text{O}(\text{s}) + \text{H}_2\text{O} \rightarrow 2 \text{K}^+ + 2 \text{OH}^-$   
 c  $\text{MgO}(\text{s}) + 2 \text{H}_3\text{O}^+ \rightarrow \text{Mg}^{2+} + 3 \text{H}_2\text{O}$   
 d  $\text{PbO}(\text{s}) + 2 \text{H}_3\text{O}^+ \rightarrow \text{Pb}^{2+} + 3 \text{H}_2\text{O}$   
 e  $\text{Fe}_2\text{O}_3(\text{s}) + 6 \text{H}_3\text{O}^+ \rightarrow 2 \text{Fe}^{3+} + 9 \text{H}_2\text{O}$   
 f  $\text{BaO}(\text{s}) + 2 \text{H}_3\text{O}^+ \rightarrow \text{Ba}^{2+} + 3 \text{H}_2\text{O}$

zouten:

a  $\text{Zn}(\text{NO}_3)_2$  b KOH c  $\text{MgCl}_2$



zouten

