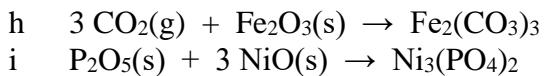


Basischemie voor analisten Hoofdstuk 14 Zouten

- 1 a PbSO₄
b Ag₂CO₃
c AgCl
d Cu(OH)₂
e Ca₃(PO₄)₂
f PbCO₃
g AgBr
h Ni₃(PO₄)₂
i Fe(OH)₂
j HgCO₃
- 2 a K₂SO₄
b Ca(NO₃)₂
c BaSO₄
d NaCl
e K₃PO₄
f Na₂SO₄
g CaBr₂
h FeCl₃
i Ni₃(PO₄)₂
- 3 a SO₃(g) + 2 KOH(aq) → K₂SO₄(aq) + H₂O
b N₂O₅(g) + Ca(OH)₂(aq) → Ca(NO₃)₂(aq) + H₂O
c SO₃(g) + Ba(OH)₂(aq) → BaSO₄(s) + H₂O
d CO₂(g) + 2 NaOH(aq) → Na₂CO₃(aq) + H₂O
e SO₂(g) + 2 KOH(aq) → K₂SO₃(aq) + H₂O
f N₂O₃(g) + 2 NaOH(aq) → 2 NaNO₂(aq) + H₂O
g SO₃(g) + Ca(OH)₂(aq) → CaSO₄(s) + H₂O
h 3 CO₂(g) + 2 Fe(OH)₃(s) → Fe₂(CO₃)₃(s) + 3 H₂O
i P₂O₅(s) + 3 Ni(OH)₂(s) → Ni₃(PO₄)₂(s) + 3 H₂O
- 4 a H₂SO₄(aq) + K₂O(s) → K₂SO₄(aq) + H₂O
b 2 HNO₃(aq) + CaO(s) → Ca(NO₃)₂(aq) + H₂O
c H₂SO₄(aq) + BaO(s) → BaSO₄(s) + H₂O
d 2 HCl(aq) + Na₂O(s) → 2 NaCl(aq) + H₂O
e 2 H₃PO₄(aq) + 3 K₂O(s) → 2 K₃PO₄(aq) + 3 H₂O
f H₂SO₄(aq) + Na₂O(s) → Na₂SO₄(aq) + H₂O
g 2 HBr(aq) + CaO(s) → CaBr₂(aq) + H₂O
h 6 HCl(aq) + Fe₂O₃(s) → 2 FeCl₃(aq) + 3 H₂O
i 2 H₃PO₄(aq) + 3 NiO(s) → Ni₃(PO₄)₂(s) + H₂O
- 5 a SO₃(g) + K₂O(s) → K₂SO₄
b N₂O₅(g) + CaO(s) → Ca(NO₃)₂
c SO₃(g) + BaO(s) → BaSO₄
d CO₂(g) + Na₂O(s) → Na₂CO₃
e SO₂(g) + K₂O(s) → K₂SO₃
f N₂O₃(g) + Na₂O(s) → 2 NaNO₃
g SO₃(g) + CaO(s) → CaSO₄



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

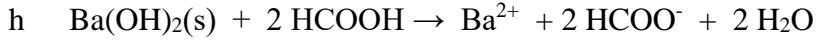
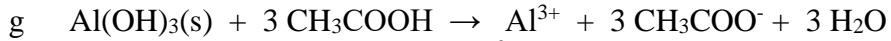
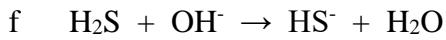
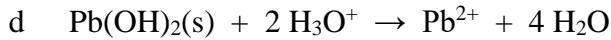
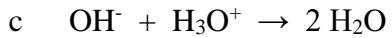
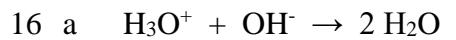


14 a K_2SO_4 en H_2SO_4
b Na_2CO_3 en H_2CO_3

c Na_3PO_4 en H_3PO_4
d $\text{Ca}_3(\text{PO}_4)_2$ en H_3PO_4

15 a CaCl_2 en $\text{Ca}(\text{OH})_2$
b $\text{Fe}(\text{OH})_3$ en $\text{Fe}_2(\text{SO}_4)_3$

c $\text{Al}(\text{OH})_3$ en $\text{Al}_2(\text{CO}_3)_3$
d $\text{Ni}(\text{OH})_2$ en NiBr_2

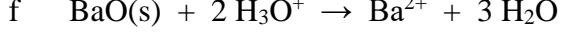
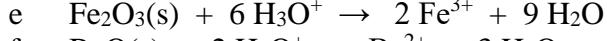
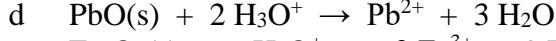
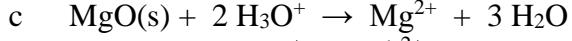
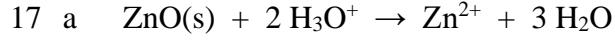


zouten:

a NaCl b K_2SO_4 c CaBr_2

d $\text{Pb}(\text{NO}_3)_2$ e NaF f K_2S

g $\text{Al}(\text{CH}_3\text{COO})_3$ h $\text{Ba}(\text{HCOO})_2$



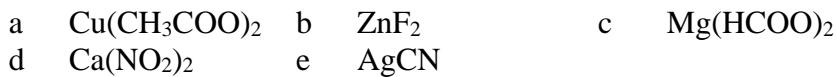
zouten:

a $\text{Zn}(\text{NO}_3)_2$ b KOH c MgCl_2



- 18 a CuO(s) + 2 CH₃COOH → Cu²⁺ + 2 CH₃COO⁻ + H₂O
 b ZnO(s) + 2 HF → Zn²⁺ + 2 F⁻ + H₂O
 c MgO(s) + 2 HCOOH → Mg²⁺ + 2 HCOO⁻ + H₂O
 d CaO(s) + 2 HNO₃ → Ca²⁺ + 2 NO₃⁻ + H₂O
 e Ag₂O(s) + 2 HCN → 2 Ag⁺ + 2 CN⁻ + H₂O

zouten



- 19 a SO₂ + 2 OH⁻ → SO₃²⁻ + H₂O na indampen: Na₂SO₃
 b CO₂ + 2 OH⁻ → CO₃²⁻ + H₂O na indampen: Na₂CO₃
 c N₂O₃ + 2 OH⁻ → 2 NO₂⁻ + H₂O na indampen: NaNO₂
 d SO₃ + 2 OH⁻ → SO₄²⁻ + H₂O na indampen: Na₂SO₄
 e P₂O₅ + 6 OH⁻ → 2 PO₄³⁻ + 3 H₂O na indampen: Na₃PO₄
 f N₂O₅ + 2 OH⁻ → 2 NO₃⁻ + H₂O na indampen: NaNO₃
 g Cl₂O₃ + 2 OH⁻ → ClO₂⁻ + H₂O na indampen: NaClO₂
 h I₂O₇ + 2 OH⁻ → 2 IO₄⁻ + H₂O na indampen: NaIO₄

- 20 a Ag⁺ + Cl⁻ → AgCl(s)
 b Pb²⁺ + SO₄²⁻ → PbSO₄(s)
 c CO₃²⁻ + Ni²⁺ → NiCO₃(s)
 d 2 PO₄³⁻ + 3 Ca²⁺ → Ca₃(PO₄)₂(s)
 e SO₃²⁻ + Cu²⁺ → CuSO₃(s)
 f Al³⁺ + 3 OH⁻ → Al(OH)₃(s)

- 21 a CN⁻ + H₃O⁺ → HCN + H₂O
 b CH₃COO⁻ + H₃O⁺ → CH₃COOH + H₂O
 c S²⁻ + 2 H₃O⁺ → H₂S + 2 H₂O
 d H₃O⁺ + F⁻ → HF + H₂O
 e CN⁻ + H₃O⁺ → HCN + H₂O

- 22 a CO₃²⁻ + 2 H₃O⁺ → 2 H₂O + CO₂(g) zout: NaCl
 b SO₃²⁻ + 2 H₃O⁺ → 2 H₂O + SO₂(g) zout: K₂NO₃
 c 2 NO₂⁻ + 2 H₃O⁺ → 2 H₂O + N₂O₃ zout: K₂SO₄