

Ajuste de reacciones redox

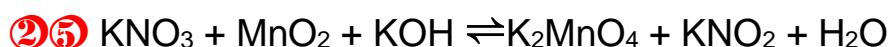
REACCIONES EN MEDIO ÁCIDO

- ① $\text{HNO}_3 + \text{Zn} \rightleftharpoons \text{Zn}(\text{NO}_3)_2 + \text{NH}_4\text{NO}_3 + \text{H}_2\text{O}$
- ② $\text{K}_2\text{Cr}_2\text{O}_7 + \text{FeCl}_2 + \text{HCl} \rightleftharpoons \text{CrCl}_3 + \text{FeCl}_3 + \text{KCl} + \text{H}_2\text{O}$
- ③ $\text{KMnO}_4 + \text{K}_2\text{SO}_3 + \text{HCl} \rightleftharpoons \text{MnO}_2 + \text{K}_2\text{SO}_4 + \text{KCl} + \text{H}_2\text{O}$
- ④ $\text{SO}_2 + \text{KMnO}_4 + \text{H}_2\text{O} \rightleftharpoons \text{MnSO}_4 + \text{H}_2\text{SO}_4 + \text{KSO}_4$
- ⑤ $\text{NaIO}_3 + \text{Na}_2\text{SO}_3 + \text{NaHSO}_3 \rightleftharpoons \text{I}_2 + \text{Na}_2\text{SO}_4 + \text{H}_2\text{O}$
- ⑥ $\text{Cu} + \text{HNO}_3 \rightleftharpoons \text{Cu}(\text{NO}_3)_2 + \text{NO} + \text{H}_2\text{O}$
- ⑦ $\text{K}_2\text{Cr}_2\text{O}_7 + \text{NaI} + \text{H}_2\text{SO}_4 \rightleftharpoons \text{Cr}_2(\text{SO}_4)_3 + \text{K}_2\text{SO}_4 + \text{Na}_2\text{SO}_4 + \text{I}_2 + \text{H}_2\text{O}$
- ⑧ $\text{KMnO}_4 + \text{Na}_2\text{C}_2\text{O}_4 + \text{H}_2\text{SO}_4 \rightleftharpoons \text{K}_2\text{SO}_4 + \text{MnSO}_4 + \text{Na}_2\text{SO}_4 + \text{H}_2\text{O} + \text{CO}_2$
- ⑨ $\text{As}_4\text{O}_6 + \text{Cl}_2 + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{AsO}_4 + \text{HCl}$
- ⑩ $\text{KMnO}_4 + \text{KCl} + \text{H}_2\text{SO}_4 \rightleftharpoons \text{MnSO}_4 + \text{Cl}_2 + \text{KHSO}_4 + \text{H}_2\text{O}$
- ⑪ $\text{K}_2\text{Cr}_2\text{O}_7 + \text{HI} + \text{H}_2\text{SO}_4 \rightleftharpoons \text{K}_2\text{SO}_4 + \text{Cr}_2(\text{SO}_4)_3 + \text{I}_2 + \text{H}_2\text{O}$
- ⑫ $\text{KMnO}_4 + \text{Na}_2\text{SO}_3 + \text{H}_2\text{SO}_4 \rightleftharpoons \text{MnSO}_4 + \text{Na}_2\text{SO}_4 + \text{K}_2\text{SO}_4 + \text{H}_2\text{O}$
- ⑬ $\text{KMnO}_4 + \text{KI} + \text{HCl} \rightleftharpoons \text{MnCl}_2 + \text{I}_2 + \text{KCl} + \text{H}_2\text{O}$
- ⑭ $\text{K}_2\text{Cr}_2\text{O}_7 + \text{HI} + \text{HClO}_4 \rightleftharpoons \text{Cr}(\text{ClO}_4)_3 + \text{I}_2 + \text{KClO}_4 + \text{H}_2\text{O}$
- ⑮ $\text{K}_2\text{Cr}_2\text{O}_7 + \text{H}_2\text{SO}_4 + \text{FeSO}_4 \rightleftharpoons \text{Cr}_2(\text{SO}_4)_3 + \text{Fe}_2(\text{SO}_4)_3 + \text{H}_2\text{O} + \text{K}_2\text{SO}_4$
- ⑯ $\text{K}_2\text{Cr}_2\text{O}_7 + \text{H}_2\text{SO}_3 \rightleftharpoons \text{Cr}_2(\text{SO}_4)_3 + \text{H}_2\text{O} + \text{K}_2\text{SO}_3$
- ⑰ $\text{K}_2\text{Cr}_2\text{O}_7 + \text{IK} + \text{H}_2\text{SO}_4 \rightleftharpoons \text{K}_2\text{SO}_4 + \text{I}_2 + \text{Cr}_2(\text{SO}_4)_3 + \text{H}_2\text{O}$

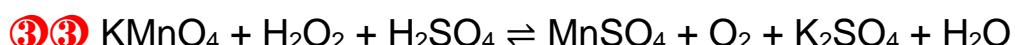
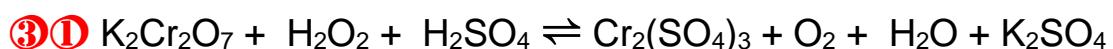
REACCIONES EN MEDIO BÁSICO

- ⑱ $\text{KCrO}_2 + \text{KClO} + \text{KOH} \rightleftharpoons \text{K}_2\text{CrO}_4 + \text{KCl} + \text{H}_2\text{O}$
- ⑲ $\text{I}_2 + \text{Na}_2\text{SO}_3 + \text{NaOH} \rightleftharpoons \text{NaI} + \text{H}_2\text{O} + \text{Na}_2\text{SO}_4$
- ⑳ $\text{Cr}_2(\text{SO}_4)_3 + \text{KClO}_3 + \text{KOH} \rightleftharpoons \text{K}_2\text{CrO}_4 + \text{KCl} + \text{K}_2\text{SO}_4 + \text{H}_2\text{O}$
- ㉑ $\text{NaClO} + \text{As} + \text{NaOH} \rightleftharpoons \text{Na}_3\text{AsO}_4 + \text{NaCl} + \text{H}_2\text{O}$
- ㉒ $\text{NaNO}_2 + \text{NaMnO}_4 + \text{H}_2\text{O} \rightleftharpoons \text{MnO}_2 + \text{NaNO}_3 + \text{NaOH}$
- ㉓ $\text{KClO}_3 + \text{KOH} + \text{CoCl}_2 \rightleftharpoons \text{KCl} + \text{Co}_2\text{O}_3 + \text{H}_2\text{O}$
- ㉔ $\text{KNO}_3 + \text{MnO} + \text{KOH} \rightleftharpoons \text{K}_2\text{MnO}_4 + \text{KNO}_2 + \text{H}_2\text{O}$

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REACCIONES EN QUE INTERVIENE EL H_2O_2



DISMUTACIÓN

