

Universidad Nacional de Cuyo - Facultad de Ingeniería

Química General – Química General e Inorgánica

Reacciones Redox

RESPUESTAS

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Lic. Liliana Ferrer

Prof. Inés Grillo

Ing. Carina Maroto

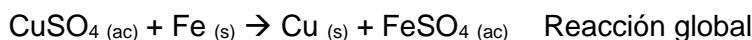
Dra. Rebeca Purpora

Ing. Alejandra Somonte

Ing. Silvina Tonini

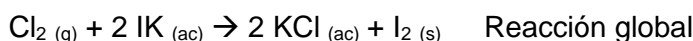
RESPUESTAS

1.



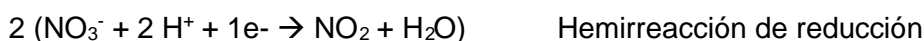
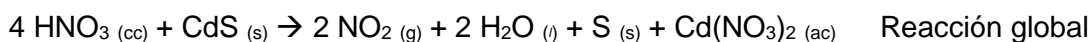
Cu^{2+} : Agente Oxidante; Fe^0 : Agente Reductor

2.



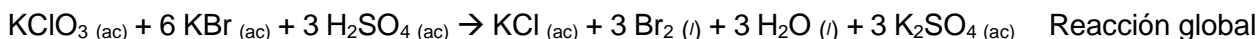
Cl_2 : Agente Oxidante; I^- : Agente Reductor

3.



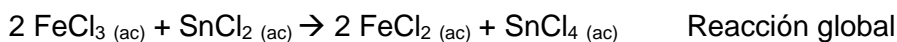
HNO_3 : Agente Oxidante; S^{2-} : Agente Reductor

4.



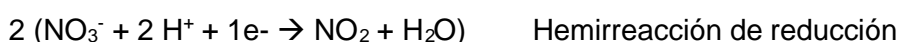
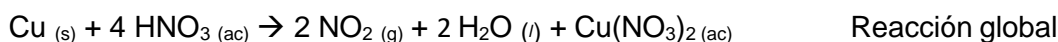
KClO_3 : Agente Oxidante; Br^- : Agente Reductor

5.



Fe^{3+} : Agente Oxidante; Sn^{2+} : Agente reductor

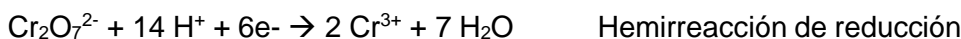
6.



HNO_3 : Agente Oxidante; Cu^0 : Agente reductor

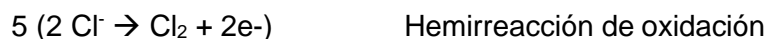
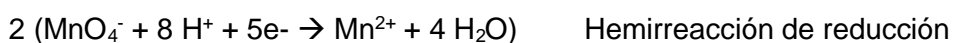
7.

Reacción global:



$\text{Cr}_2\text{O}_7^{2-}$: Agente Oxidante; Fe^{2+} : Agente Reductor

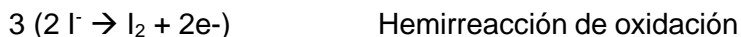
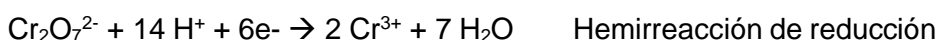
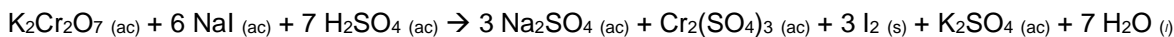
8.



MnO_4^- : Agente Oxidante; Cl^- : Agente Reductor

9.

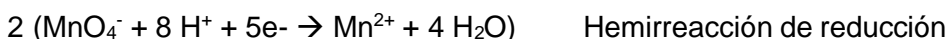
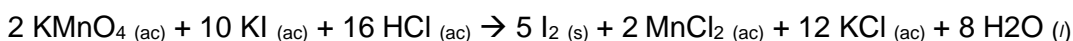
Reacción global:



$\text{Cr}_2\text{O}_7^{2-}$: Agente Oxidante; I^- : Agente Reductor

10.

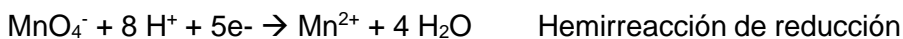
Reacción global:



MnO_4^- : Agente Oxidante; I^- : Agente Reductor

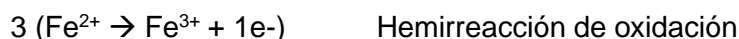
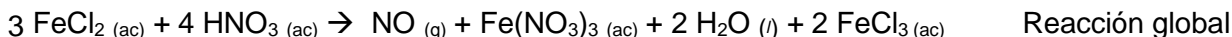
11.

Reacción global:



MnO_4^- : Agente Oxidante; Fe^{2+} : Agente Reductor

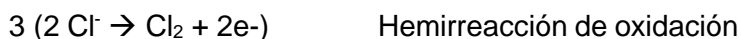
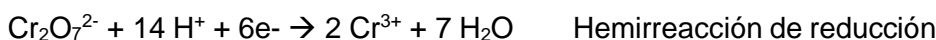
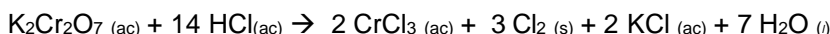
12.



NO_3^- : Agente Oxidante; Fe^{2+} : Agente Reductor

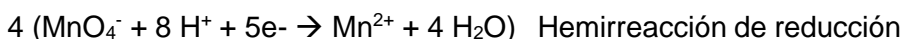
Autoevaluación

1. Reacción global:



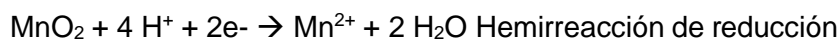
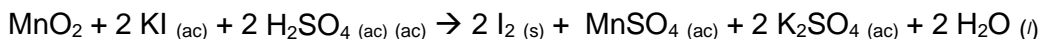
$\text{Cr}_2\text{O}_7^{2-}$: Agente Oxidante; Cl^- : Agente Reductor

2. Reacción Global



MnO_4^- : Agente Oxidante; ClO^- : Agente Reductor

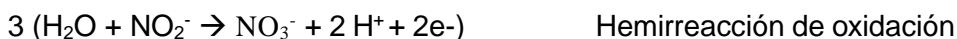
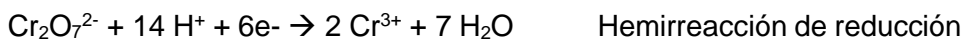
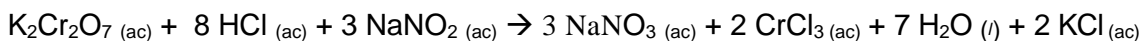
3. Reacción global:



MnO_2 : Agente Oxidante; I^- : Agente Reductor

4. . Ácido clorhídrico (ac) + dicromato de potasio (ac) + nitrito de sodio (ac) □ Nitrato de sodio (ac) + cloruro crómico (ac) + cloruro de potasio (ac) + agua (l)

5. HCl +



$\text{Cr}_2\text{O}_7^{2-}$: Agente Oxidante; NO_2^- : Agente Reductor