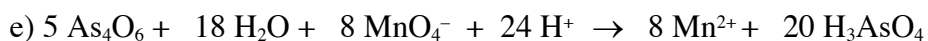
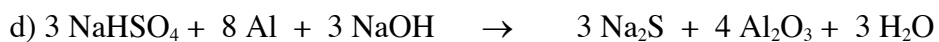
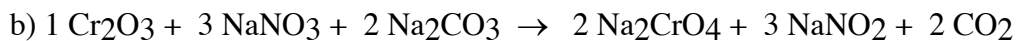
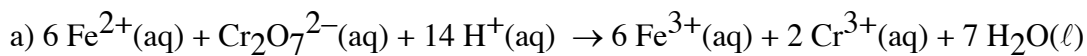


Exercice 1



Exercice 2: masse perdue (convertie en énergie) $75\mu\text{g}$

Exercice 3: $\Delta_r H^\circ = -128,1 \text{ kJ mol}^{-1}$

Exercice 4: a) $\Delta_r H = -14,5 \text{ kJ g}^{-1}$ b) $V = 272,5 \text{ L}$

Exercice 5: utilisation des tables nécessaires

a) $\Delta_r S^\circ = 2,9 \text{ J K}^{-1} \text{ mol}^{-1}$ b) $-253,0 \text{ J K}^{-1} \text{ mol}^{-1}$ c) $-72,4 \text{ J K}^{-1} \text{ mol}^{-1}$ d) $20,0 \text{ J K}^{-1} \text{ mol}^{-1}$

Exercice 6: faux, faux, vrai, faux

Exercice 7: $\Delta_r H^\circ = -106 \text{ kJ/mol}$