

Exercises



1. Provide an expression for K_P for reaction 1. Why does a term for C(graphite) not appear in the K_P expression for the reaction of Table 1?
2. Calculate the equilibrium constant for the reaction using tabulated data.

$$\Delta_r H^\circ = -484 \text{ kJ/mol}$$

$$\Delta_r S^\circ = -89 \text{ kJ/mol}$$



Write the equilibrium constant for this reaction in terms of the partial pressures.

3. Calculate the equilibrium constant for

$$\Delta_r G_f^\circ(\text{CaO}) = -604.3 \text{ kJ/mol}$$

$$\Delta_r G_f^\circ(\text{CO}_2) = -394.36 \text{ kJ/mol}$$

from tabulated data.

$$\Delta_r G_f^\circ(\text{CaCO}_3) = -1128.77 \text{ kJ/mol}$$



9. The reaction for the formation of nitrosyl chloride



was studied at 25°C. The pressures at equilibrium were found to be

$$P_{\text{NOCl}} = 1.2 \text{ atm}$$

$$P_{\text{NO}} = 5.0 \times 10^{-2} \text{ atm}$$

$$P_{\text{Cl}_2} = 3.0 \times 10^{-1} \text{ atm}$$

- a) Calculate the value of K_P for this reaction at 25°C.
- b) If 1.0 atm of $\text{NOCl}(\text{g})$ was placed into an evacuated container would a reaction occur?
- c) If 1.0 atm each of $\text{NOCl}(\text{g})$, $\text{Cl}_2(\text{g})$ and $\text{NO}(\text{g})$ were placed into an evacuated container would a reaction occur? If so in which direction would the reaction proceed?
- d) If 1.0 atm of $\text{NOCl}(\text{g})$, 5.0×10^{-3} atm of NO and 3.0×10^{-1} atm of Cl_2 were placed into an evacuated container would a reaction occur? If so in which direction would the reaction proceed?

Show all calculations and explain each answer.

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