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4.14.

$$\left(\frac{\partial H_m}{\partial T}\right)_P = \frac{C_{P,m}}{T} = 1.25 \text{ J K}^{-1} \text{ mol}^{-1}$$

$$\Delta H_m(T_{\text{final}}) = \Delta H_m(T_{\text{init}}) + C_{P,m} \left(\frac{T_{\text{final}} - T_{\text{init}}}{T_{\text{init}}} \right) = 1.00 \text{ J mol}^{-1}$$

and that would maintain CPM at 1.25 J K⁻¹ mol⁻¹.

- 4.15. (a) The nuclei would be less bound, the chemical potential is high.
 (b) The nuclei would be greater bound, the chemical potential is lower.
 (c) The nuclei would be perturbed because the chemical potential is different by 2 units.

4.16. From the usual method the distribution of the CPM being $P_{\text{H}} = P_{\text{D}}$, the chemical $\mu_{\text{H}} = \mu_{\text{D}}$ and

$$\mu_{\text{H}} = \mu_{\text{D}} \Rightarrow \ln(P_{\text{H}}) = \ln(P_{\text{D}}) \Rightarrow \left(\frac{\partial \mu_{\text{H}}}{\partial T} \right)_P = \left(\frac{\partial \mu_{\text{D}}}{\partial T} \right)_P \Rightarrow \frac{C_{P,m}(\text{H})}{T} = \frac{C_{P,m}(\text{D})}{T} \Rightarrow 1.25 \text{ J K}^{-1} \text{ mol}^{-1}$$

4.17. From the usual method $C_{P,m}(\text{H}_2) = C_{P,m}(\text{D}_2) = C_{P,m}(\text{HD})$

$$\left(\frac{\partial \mu_{\text{H}_2}}{\partial T} \right)_P = \left(\frac{\partial \mu_{\text{D}_2}}{\partial T} \right)_P = \left(\frac{\partial \mu_{\text{HD}}}{\partial T} \right)_P \Rightarrow \frac{C_{P,m}(\text{H}_2)}{T} = \frac{C_{P,m}(\text{D}_2)}{T} = \frac{C_{P,m}(\text{HD})}{T}$$

$$\frac{C_{P,m}(\text{H}_2)}{T} = \frac{C_{P,m}(\text{D}_2)}{T} \Rightarrow \frac{1.25 \text{ J K}^{-1} \text{ mol}^{-1}}{T} = \frac{1.25 \text{ J K}^{-1} \text{ mol}^{-1}}{T} \Rightarrow T = 1.25 \text{ K}$$

4.18. From the usual method the chemical potential is different by 2 units

$$\mu_{\text{H}} = \mu_{\text{D}} \Rightarrow \ln(P_{\text{H}}) = \ln(P_{\text{D}}) \Rightarrow \left(\frac{\partial \mu_{\text{H}}}{\partial T} \right)_P = \left(\frac{\partial \mu_{\text{D}}}{\partial T} \right)_P \Rightarrow \frac{C_{P,m}(\text{H})}{T} = \frac{C_{P,m}(\text{D})}{T} \Rightarrow 1.25 \text{ J K}^{-1} \text{ mol}^{-1}$$

Physical Chemistry Ball Solution Manual

Yijin Wang



Physical Chemistry Ball Solution Manual:

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