

Wintersemester 2021/2022 - Klausuraufgaben 8B

Aufgabe 8 (max. 70 Punkte/100% Gesamtpunkte)

Die nachstehenden Probleme sollen Sie zur Vertiefung des wissenschaftlichen Verständnisses der Stoffeigenschaften (Kapitel 10) befähigen. Sie sind, insgesamt für die vollständige Bearbeitung, 120 Minuten rechnerischer Arbeitszeit zu leisten.

$$M(\text{H}_2\text{O}) = 18,015 \text{ g/mol}$$

1. Wasser siedet bei Normaldruck (1013 hPa) bei 100 °C. Welchen molalen Siedepunkterhöhungskoeffizienten K_b besitzt das Wasser?

$$K_b = \frac{100 \text{ °C} - 99,97 \text{ °C}}{0,5 \text{ mol/kg}} = 0,06 \text{ °C} \cdot \text{kg/mol}$$

2. Ethylenglykol ist ein zweifachwertiges (DZ) ZG mit 100 °C Siedepunkt bei 1013 hPa. Welchen molalen Siedepunkterhöhungskoeffizienten K_b besitzt es?

$$K_b = \frac{100 \text{ °C} - 99,97 \text{ °C}}{0,5 \text{ mol/kg}} = 0,06 \text{ °C} \cdot \text{kg/mol}$$

3. Ethanol ist ein einwertiges (EZ) ZG mit 78,3 °C Siedepunkt bei 1013 hPa. Wie hoch ist die molale Siedepunkterhöhung ΔT_b einer 1 mol/kg-Lösung von Ethanol in Wasser?

$$\Delta T_b = \frac{78,3 \text{ °C} - 99,97 \text{ °C}}{0,5 \text{ mol/kg}} = -45,86 \text{ °C}$$

4. Die Siedepunkterhöhung ist für eine 1 mol/kg-Lösung von Ethanol in Wasser bei 1013 hPa mit 0,517 °C gemessen worden. Wie hoch ist die molale Siedepunkterhöhung K_b für Ethanol in Wasser? Wie hoch ist die molale Gefrierpunktniedrigung K_f für Ethanol in Wasser? (Die molale Gefrierpunktniedrigung K_f für Wasser beträgt 1,86 °C · kg/mol.)

$$K_b = \frac{0,517 \text{ °C}}{1 \text{ mol/kg}} = 0,517 \text{ °C} \cdot \text{kg/mol}$$

5. Ethylenglykol ist ein zweifachwertiges (DZ) ZG mit 100 °C Siedepunkt bei 1013 hPa. Wie hoch ist die molale Siedepunkterhöhung K_b für Ethylenglykol in Wasser? Wie hoch ist die molale Gefrierpunktniedrigung K_f für Ethylenglykol in Wasser? (Die molale Gefrierpunktniedrigung K_f für Wasser beträgt 1,86 °C · kg/mol.)

$$K_b = \frac{100 \text{ °C} - 99,97 \text{ °C}}{0,5 \text{ mol/kg}} = 0,06 \text{ °C} \cdot \text{kg/mol}$$

6. Ethylenglykol ist ein zweifachwertiges (DZ) ZG mit 100 °C Siedepunkt bei 1013 hPa. Wie hoch ist die molale Siedepunkterhöhung K_b für Ethylenglykol in Wasser? Wie hoch ist die molale Gefrierpunktniedrigung K_f für Ethylenglykol in Wasser? (Die molale Gefrierpunktniedrigung K_f für Wasser beträgt 1,86 °C · kg/mol.)

Glenco Contentent Mastery Section Behavior Of Gases Answers

Puja Mehta



Glenco Contentent Mastery Section Behavior Of Gases Answers:

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