

Wintersemester 2019/2020 - Klausuraufgaben 8B

Aufgabe 8 (max. 70 Minuten/100 Punkte)

Die nachstehenden Probleme betreffen die Veranschaulichung des Verhaltens der Stoffeigenschaften mittels "Diagramme" von Molanteile, Druck, Temperatur in der Zustandsform. Bei diesen Stoffen steigt der molare Anteil an Wasser (H_2O) in der Luft mit der Temperatur an.

$$H_2O(l) \rightleftharpoons H_2O(g)$$

1. Wasser verdunstet in einem geschlossenen Behälter mit einem Volumen von 10 l bei einer Temperatur von 20 °C. Wie groß ist die molare Konzentration des Wassers in der Luft?

$$n = \frac{p_{H_2O} \cdot V}{R \cdot T} = \frac{2,339 \text{ kPa} \cdot 10 \text{ l}}{8,314 \text{ J/(mol} \cdot \text{K)} \cdot 293,15 \text{ K}} = 9,65 \cdot 10^{-3} \text{ mol}$$

2. Wasser verdunstet in einem geschlossenen Behälter mit einem Volumen von 10 l bei einer Temperatur von 20 °C. Wie groß ist die molare Konzentration des Wassers in der Luft?

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4. In einem geschlossenen Behälter mit einem Volumen von 10 l befindet sich eine Mischung aus Wasser und Luft bei einer Temperatur von 20 °C. Wie groß ist die molare Konzentration des Wassers in der Luft?

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5. Wasser verdunstet in einem geschlossenen Behälter mit einem Volumen von 10 l bei einer Temperatur von 20 °C. Wie groß ist die molare Konzentration des Wassers in der Luft?

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6. In einem geschlossenen Behälter mit einem Volumen von 10 l befindet sich eine Mischung aus Wasser und Luft bei einer Temperatur von 20 °C. Wie groß ist die molare Konzentration des Wassers in der Luft?

Gases Section Answers

S Nieto

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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