

Wintersemester 2019/2020 - Klausuraufgaben 8B

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

Die nachstehenden Probleme betreffen die Veranschaulichung des Verhaltens der Stoffeigenschaften mittels "Diagramme" von Molanteile, Druck, Temperatur in der Zustandsform. Bitte führen Sie alle Schritte der Berechnungen und die Skizzen an!

$$R = 8,314 \text{ J mol}^{-1} \text{ K}^{-1} = 0,08314 \text{ bar dm}^3 \text{ mol}^{-1} \text{ K}^{-1}$$

1. Chlorwasserstoff (Molare Masse $M = 36,5 \text{ g mol}^{-1}$) wird bei einer Temperatur von 25°C in einem geschlossenen Behälter bei einem Druck von 10 bar (absolut) gehalten.

a) Es ist zu entscheiden, ob sich Chlorwasserstoff bei 25°C als Gas oder als Flüssigkeit vorfindet.

2. Chlorwasserstoff wird bei einer Temperatur von 25°C bei 10 bar (absolut) in einem geschlossenen Behälter bei einem Druck von 10 bar (absolut) gehalten.

b) Es ist zu entscheiden, ob sich Chlorwasserstoff bei 25°C als Gas oder als Flüssigkeit vorfindet.

3. Chlorwasserstoff wird bei einer Temperatur von 25°C bei 10 bar (absolut) in einem geschlossenen Behälter bei einem Druck von 10 bar (absolut) gehalten. Die Temperatur wird auf 50°C erhöht. Wie hoch ist der Druck im Behälter?

c) Es ist zu entscheiden, ob sich Chlorwasserstoff bei 50°C als Gas oder als Flüssigkeit vorfindet.

4. In einem Behälter wird Chlorwasserstoff bei einer Temperatur von 25°C bei einem Druck von 10 bar (absolut) gehalten. Die Temperatur wird auf 50°C erhöht. Wie hoch ist der Druck im Behälter? Die Temperatur wird auf 50°C erhöht. Wie hoch ist der Druck im Behälter? Die Temperatur wird auf 50°C erhöht. Wie hoch ist der Druck im Behälter?

d) Es ist zu entscheiden, ob sich Chlorwasserstoff bei 50°C als Gas oder als Flüssigkeit vorfindet.

5. Chlorwasserstoff wird bei einer Temperatur von 25°C bei einem Druck von 10 bar (absolut) gehalten. Die Temperatur wird auf 50°C erhöht. Wie hoch ist der Druck im Behälter? Die Temperatur wird auf 50°C erhöht. Wie hoch ist der Druck im Behälter?

e) Es ist zu entscheiden, ob sich Chlorwasserstoff bei 50°C als Gas oder als Flüssigkeit vorfindet.

6. Chlorwasserstoff wird bei einer Temperatur von 25°C bei einem Druck von 10 bar (absolut) gehalten. Die Temperatur wird auf 50°C erhöht. Wie hoch ist der Druck im Behälter? Die Temperatur wird auf 50°C erhöht. Wie hoch ist der Druck im Behälter?

Section 3 Behavior Of Gases Answer Key

CO Houle



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