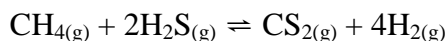


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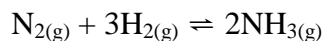
125 Chapter 15 Homework

1. An equilibrium mixture, at 900 °C in a 1725 mL container, involving the chemical system



is found to contain 17.6 g CH₄, 50.8 g H₂S, 83.8 g CS₂, and 8.10 g H₂. Calculate the equilibrium constant for this reaction at the given temperature.

2. An equilibrium mixture, at 472 °C in a 1325 mL container, involving the chemical system



is found to contain 4.23 g N₂, 0.915 g H₂, and 0.496 g NH₃. Calculate the equilibrium constant for this reaction at the given temperature.

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