

1.10.4.1: Practice Equilibrium Constants

Exercise 1.10.4.1.1



What is the equilibrium constant expression of the reaction above?

Answer

$$K_{eq} = \frac{[NH_3]^2}{[H_2]^3[N_2]}$$

Exercise 1.10.4.1.1



The K_{eq} of the reaction above is 3.4×10^2 . Is the equilibrium mixture mostly SO_2 and O_2 or mostly SO_3 ?

Answer

mostly SO_3

Exercise 1.10.4.1.1



What is the equilibrium constant expression of the reaction above?

Answer

$$K_{eq} = \frac{[CS_2]}{[S]^2}$$

Exercise 1.10.4.1.1



What is the equilibrium constant expression of the reaction above?

Answer

$$K_{eq} = \frac{1}{[Pb^{2+}][Cl^{-}]^2}$$

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