

Equilibrium Practice Problems

1. Write the equilibrium expression for each of the following reactions:



$$K = \frac{[\text{NH}_3]^2}{[\text{N}_2] [\text{H}_2]^3}$$



$$K = \frac{[\text{ICl}]^2}{[\text{Cl}_2]}$$



$$K = \frac{[\text{NO}] [\text{O}_2]^{1/2}}{[\text{NO}_2]}$$

2. The dissociation of acetic acid, CH_3COOH , has an equilibrium constant at 25°C of 1.8×10^{-5} . The reaction is



If the equilibrium concentration of CH_3COOH is 0.46 moles in 0.500 L of water and that of CH_3COO^- is 8.1×10^{-3} moles in the same 0.500 L, calculate $[\text{H}^+]$ for the reaction.

$$K = \frac{[\text{CH}_3\text{COO}^-] [\text{H}^+]}{[\text{CH}_3\text{COOH}]} \quad \text{Plug in known values and solve.}$$

$$1.8 \times 10^{-5} = \frac{[8.1 \times 10^{-3} \text{ moles}/0.500 \text{ L}] [\text{H}^+]}{[0.46 \text{ moles}/0.500 \text{ L}]}$$

$$[\text{H}^+] = 1.0 \times 10^{-3} \text{ M}$$

3. Indicate the effect of a catalyst, pressure, temperature and concentration on each of the following on:

	catalyst	pressure	temperature	concentration
a. speed	presence increase	direct relationship	direct relationship	direct relationship
b. pos ⁿ	nothing	based on moles	based on enthalpy of rxn	inverse relationship

Reaction Rates And Equilibrium Practice Problems

Xiang Xie



Reaction Rates And Equilibrium Practice Problems:

Barron's Chemistry Practice Plus: 400+ Online Questions and Quick Study Review Barron's Educational Series, Mark Kernion, Joseph A. Mascetta, 2022-07-05 Need quick review and practice to help you excel in Chemistry Barron's Chemistry Practice Plus features more than 400 online practice questions and a concise review guide that covers the basics of Chemistry Inside you'll find Concise review on the basics of Chemistry an excellent resource for students who want a quick review of the most important topics Access to 400 online questions arranged by topic for customized practice Online practice includes answer explanations with expert advice for all questions plus scoring to track your progress This essential guide is the perfect practice supplement for students and teachers

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Chemistry is Phenomenal Tracy Poulsen, Problems in Physical Chemistry JEE Main and Advanced Volume 1 Dr. RK Gupta, 2021-04-05

- 1 The book is prepared for the problem solving in chemistry
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- 3 Each chapter is topically divided into quick theory Immediate Test and Knowledge Confirmation Test
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