

## ChemActivity 40 B

### Relationships among Equilibrium Constants

We saw in ChemActivity 40 that equilibrium constants can be calculated if similar reactions have known values of  $K$ .

1. Given that  $2\text{NO}(\text{g}) + \text{O}_2(\text{g}) \rightleftharpoons 2\text{NO}_2(\text{g})$ ;  $K_p = 1.7 \times 10^{17}$  at  $25^\circ\text{C}$

(a) Write the equilibrium expression  $K_p =$

A similar reaction for which we can calculate  $K$  is:  $\text{NO}(\text{g}) + \frac{1}{2}\text{O}_2(\text{g}) \rightleftharpoons \text{NO}_2(\text{g})$ .

(b) Write the equilibrium expression for the second reaction,  $K_p' =$

(c) Describe the mathematical relationship between  $K_p$  and  $K_p'$  (how is  $K_p$  related to  $K_p'$ ?)

(d) What is the numerical value of  $K_p'$ ?

A third similar reaction is  $\text{NO}_2(\text{g}) \rightleftharpoons \text{NO}(\text{g}) + \frac{1}{2}\text{O}_2(\text{g})$

(e) Write the equilibrium expression for the third reaction,  $K_p'' =$

(f) Describe the mathematical relationship between  $K_p'$  and  $K_p''$ .

(g) What is the numerical value of  $K_p''$ ?

In this course we have had need to add chemical reaction in a mathematical way. In our study of thermochemistry we added chemical reactions in applying Hess's Law. In each case all the reactants and products are combined and compounds that appear as both reactants and products are "canceled" from the final (overall) reaction. The same can be done with equilibrium expressions.

If we want to know the equilibrium constant for the atmospheric reaction



We can use reactions of known  $K$  that sum to give the desired equilibrium.

# Chemactivity 40 Answers

**Camilla Rothe**



**Chemactivity 40 Answers:**

This book delves into Chemactivity 40 Answers. Chemactivity 40 Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Chemactivity 40 Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Chemactivity 40 Answers
- Chapter 2: Essential Elements of Chemactivity 40 Answers
- Chapter 3: Chemactivity 40 Answers in Everyday Life
- Chapter 4: Chemactivity 40 Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Chemactivity 40 Answers. The first chapter will explore what Chemactivity 40 Answers is, why Chemactivity 40 Answers is vital, and how to effectively learn about Chemactivity 40 Answers.

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6. In chapter 5, the author will draw a conclusion about Chemactivity 40 Answers. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Chemactivity 40 Answers.

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**Table of Contents Chemactivity 40 Answers**

1. Understanding the eBook Chemactivity 40 Answers
  - The Rise of Digital Reading Chemactivity 40 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Chemactivity 40 Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an eBook Platform
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chemactivity 40 Answers
  - Personalized Recommendations
  - eBook User Reviews and Ratings
  - eBook Bestseller Lists
5. Accessing Chemactivity 40 Answers Free and Paid eBooks
  - eBook Public Domain eBooks
  - eBook Subscription Services
  - eBook Budget-Friendly Options
6. Navigating eBook Formats
  - ePub, PDF, MOBI, and More
  - eBook Compatibility with Devices
  - eBook Enhanced Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of eBook
  - Highlighting and Note-Taking eBook
  - Interactive Elements eBook
8. Staying Engaged with eBook

- 
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chemactivity 40 Answers
9. Balancing eBooks and Physical Books Chemactivity 40 Answers
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chemactivity 40 Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Chemactivity 40 Answers
- Setting Reading Goals Chemactivity 40 Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chemactivity 40 Answers
- Fact-Checking eBook Content of Chemactivity 40 Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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