

ACID-BASE RELATIVE STRENGTHS

in Aqueous Solutions at 25° C

Name of Acid	Acid		Base		K _a
Hydriodic	HI	→	H ⁺ + I ⁻		>> 1
Hydrobromic	HBr	→	H ⁺ + Br ⁻		>> 1
Hydrochloric	HCl	→	H ⁺ + Cl ⁻		>> 1
Nitric	HNO ₃	→	H ⁺ + NO ₃ ⁻		> 1
Sulfuric	H ₂ SO ₄	→	H ⁺ + HSO ₄ ⁻		> 1
Oxalic	H ₂ C ₂ O ₄	⇌	H ⁺ + HC ₂ O ₄ ⁻		5.90 × 10 ⁻²
Sulfurous	H ₂ SO ₃	⇌	H ⁺ + HSO ₃ ⁻		1.54 × 10 ⁻²
Hydrogen Sulfate Ion	HSO ₄ ⁻	⇌	H ⁺ + SO ₄ ²⁻		1.20 × 10 ⁻²
Phosphoric	H ₃ PO ₄	⇌	H ⁺ + H ₂ PO ₄ ⁻		7.52 × 10 ⁻³
Nitrous	HNO ₂	⇌	H ⁺ + NO ₂ ⁻		4.6 × 10 ⁻⁴
Hydrofluoric	HF	⇌	H ⁺ + F ⁻		3.53 × 10 ⁻⁴
Formic	HCO ₂ H	⇌	H ⁺ + HCO ₂ ⁻		1.77 × 10 ⁻⁴
Benzoic	C ₆ H ₅ CO ₂ H	⇌	H ⁺ + C ₆ H ₅ CO ₂ ⁻		6.46 × 10 ⁻⁵
Acetic	CH ₃ CO ₂ H	⇌	H ⁺ + CH ₃ CO ₂ ⁻		1.76 × 10 ⁻⁵
Carbonic	H ₂ CO ₃	⇌	H ⁺ + HCO ₃ ⁻		4.30 × 10 ⁻⁷
Hydrogen Sulfite Ion	HSO ₃ ⁻	⇌	H ⁺ + SO ₃ ²⁻		1.02 × 10 ⁻⁷
Dihydrogen Phosphate Ion	H ₂ PO ₄ ⁻	⇌	H ⁺ + HPO ₄ ²⁻		6.23 × 10 ⁻⁸
Boric	H ₃ BO ₃	⇌	H ⁺ + H ₂ BO ₃ ⁻		7.3 × 10 ⁻¹⁰
Ammonium Ion	NH ₄ ⁺	⇌	H ⁺ + NH ₄ ⁺		5.64 × 10 ⁻¹⁰
Hydrogen Carbonate Ion	HCO ₃ ⁻	⇌	H ⁺ + CO ₃ ²⁻		5.61 × 10 ⁻¹¹
Monohydrogen Phosphate Ion	HPO ₄ ²⁻	⇌	H ⁺ + PO ₄ ³⁻		2.2 × 10 ⁻¹³
Water	H ₂ O	⇌	H ⁺ + OH ⁻		1.0 × 10 ⁻¹⁴

For space considerations, all reactions omit water as a reactant



19 3 Chemistry Answers Strengths Of Acids And Bases

**Barron's Educational Series, Neil D.
Jespersen, Pamela Kerrigan**



19 3 Chemistry Answers Strengths Of Acids And Bases:

19 3 Chemistry Answers Strengths Of Acids And Bases Book Review: Unveiling the Magic of Language

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Table of Contents 19 3 Chemistry Answers Strengths Of Acids And Bases

1. Understanding the eBook 19 3 Chemistry Answers Strengths Of Acids And Bases
 - The Rise of Digital Reading 19 3 Chemistry Answers Strengths Of Acids And Bases
 - Advantages of eBooks Over Traditional Books
2. Identifying 19 3 Chemistry Answers Strengths Of Acids And Bases
 - 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 19 3 Chemistry Answers Strengths Of Acids And Bases
 - User-Friendly Interface
4. Exploring eBook Recommendations from 19 3 Chemistry Answers Strengths Of Acids And Bases
 - Personalized Recommendations
 - 19 3 Chemistry Answers Strengths Of Acids And Bases User Reviews and Ratings
 - 19 3 Chemistry Answers Strengths Of Acids And Bases and Bestseller Lists

-
5. Accessing 19 3 Chemistry Answers Strengths Of Acids And Bases Free and Paid eBooks
 - 19 3 Chemistry Answers Strengths Of Acids And Bases Public Domain eBooks
 - 19 3 Chemistry Answers Strengths Of Acids And Bases eBook Subscription Services
 - 19 3 Chemistry Answers Strengths Of Acids And Bases Budget-Friendly Options
 6. Navigating 19 3 Chemistry Answers Strengths Of Acids And Bases eBook Formats
 - ePub, PDF, MOBI, and More
 - 19 3 Chemistry Answers Strengths Of Acids And Bases Compatibility with Devices
 - 19 3 Chemistry Answers Strengths Of Acids And Bases Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 19 3 Chemistry Answers Strengths Of Acids And Bases
 - Highlighting and Note-Taking 19 3 Chemistry Answers Strengths Of Acids And Bases
 - Interactive Elements 19 3 Chemistry Answers Strengths Of Acids And Bases
 8. Staying Engaged with 19 3 Chemistry Answers Strengths Of Acids And Bases
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 19 3 Chemistry Answers Strengths Of Acids And Bases
 9. Balancing eBooks and Physical Books 19 3 Chemistry Answers Strengths Of Acids And Bases
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 19 3 Chemistry Answers Strengths Of Acids And Bases
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine 19 3 Chemistry Answers Strengths Of Acids And Bases
 - Setting Reading Goals 19 3 Chemistry Answers Strengths Of Acids And Bases
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of 19 3 Chemistry Answers Strengths Of Acids And Bases
 - Fact-Checking eBook Content of 19 3 Chemistry Answers Strengths Of Acids And Bases
 - 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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