

ORGO ACIDS & BASES

CHEAT SHEET

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Arrhenius

Acid = Litmus Red
 H^+ in H_2O

Base = Litmus Blue
 OH^- in H_2O

Bronsted-Lowry

H^+ donor
 ex. HCl

Accepts H^+
 ex. $NaOH$

Lewis (electrons)

Accepts e^- pair
 ex. $AlCl_3$

e^- pair donor
 ex. Cl^-

Acid - Base Reaction



Equations to recognize

$$K_a = \frac{[H^+][A^-]}{[HA]} \quad pK_a = -\log(K_a) \rightarrow K_a \propto [H^+] \propto \frac{1}{pK_a}$$

Strong Acid

$\uparrow [H^+]$

$\uparrow K_a$

$\downarrow pK_a$

Weak Acid

$\downarrow [H^+]$

$\downarrow K_a$

$\uparrow pK_a$

$$pH = -\log [H^+] \\ pOH = -\log [OH^-]$$

$$pH + pOH = 14 \\ pK_a + pK_b = pK_w = 14$$

pH scale
 $pH \rightarrow$
 $\leftarrow pOH$

$pH = 1$
 Acidic
 $pOH = 14$

$pH = 7$
 Neutral
 $pOH = 7$

$pH = 14$
 Basic
 $pOH = 1$

STRONG ACIDS FORM STABLE CONJUGATE BASES

CARIO

C = charge of acid or conj. base

A = Atom holding charge

R = Resonance

I = Inductive effect

O = orbital / hybridization

See videos for full explanation + examples LEAH4SCI.COM/acidbase

Charge: $+ / \delta^+$ more acidic } when compare species
 $- / \delta^-$ more basic }

Atom: In same period $\uparrow$ eneg $\uparrow$ acidity
 In same group $\uparrow$ size $\uparrow$ acidity



Resonance: $\uparrow$ Res $\uparrow$ charge distribution
 $\uparrow$ acidity (Aromaticity = $\uparrow$ stable)

Inductive Effect: $\uparrow$ e-neg nearby atom
 $\uparrow$ acidity

Orbital / hybridization $\uparrow$ % s $\uparrow$ acidity
 $sp = 50\% > sp^2 = 33\% > sp^3 = 25\%$

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Acid Base Reaction Study Guide

**James Adams, Maryn Munley, Nathan
Eisenbeis, Caroline Miller, Jesse Shetler**



Acid Base Reaction Study Guide:

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of Taxol from the Pacific yew tree is vanishingly small however A single 100 year old tree provides only about one dose of the drug roughly 300 mg For this reason as well as the spectacular molecular architecture of Taxol synthetic organic chemists fiercely undertook efforts to synthesize it Five total syntheses of Taxol have thus far been reported Now a combination of isolation of a related metabolite from European yew needles and synthesis of Taxol from that intermediate supply the clinical demand This case clearly demonstrates the importance of synthesis and the use of organic chemistry It s just one of the many examples used in the text that will spark the interest of students and get them involved in the study of organic chemistry

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Table of Contents Acid Base Reaction Study Guide

1. Understanding the eBook Acid Base Reaction Study Guide
 - The Rise of Digital Reading Acid Base Reaction Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Acid Base Reaction Study Guide
 - 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 Acid Base Reaction Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Acid Base Reaction Study Guide
 - Personalized Recommendations
 - Acid Base Reaction Study Guide User Reviews and Ratings
 - Acid Base Reaction Study Guide and Bestseller Lists

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