

Gabriel synthesis



Nitrogen and Phosphorus Containing Compounds

- Strecker synthesis $\rightarrow$ amine + nitrile (amino group + nitrile group) $\rightarrow$ amino acid
- Gabriel synthesis: SN2, hydrolysis, decarboxylation $\rightarrow$ amino acid
- Hydrolytic release of PPi $\rightarrow$ provides energy
- Phosphoric acid: 3 H, each with unique pKa values $\rightarrow$ buffer over a large pH range

Spectroscopy

- IR - absorbs light of specific wavenumber $\rightarrow$ vibrates (asymmetric bonds and stretches)
 - O-H: 3300 broad, N-H: 3300 sharp, C=O: 1700 sharp
- UV - measure absorption of UV light $\rightarrow$ causes movement of electrons (e- MO)
 - more conjugation $\rightarrow$ lower energy for transmission and longer wavelength
 - Smaller gap for HOMO and LUMO $\rightarrow$ move easily from one orbital to another (easily excited) and absorb longer wavelengths (lower frequency, lower energy)
 - More conjugation - absorbs light in visible range
- NMR - excite from alpha (lower energy) state to beta (higher energy) state
 - Left: downfield, deshielded

Separations and Purifications

- Extraction: organic and aqueous phase as separatory funnel $\rightarrow$ mixing
- Filtration: residue, filtrate
- Recrystallisation: heat, cool - recrystallise out of solution
- Distillation: simple: difference $> 25^\circ\text{C}$; superheating when liquid is heated above BP w/o vaporization, happens when gas bubbles can not overcome column of atmosphere

Kaplan Organic Chemistry Amines Answers Mcat

H Kauffman



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Table of Contents Kaplan Organic Chemistry Amines Answers Mcat

1. Understanding the eBook Kaplan Organic Chemistry Amines Answers Mcat
 - The Rise of Digital Reading Kaplan Organic Chemistry Amines Answers Mcat
 - Advantages of eBooks Over Traditional Books
2. Identifying Kaplan Organic Chemistry Amines Answers Mcat
 - 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 Kaplan Organic Chemistry Amines Answers Mcat
 - User-Friendly Interface
4. Exploring eBook Recommendations from Kaplan Organic Chemistry Amines Answers Mcat
 - Personalized Recommendations
 - Kaplan Organic Chemistry Amines Answers Mcat User Reviews and Ratings
 - Kaplan Organic Chemistry Amines Answers Mcat and Bestseller Lists

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