

Biochemistry ACS Study Guide

## What are Nucleotides?

Nucleotides are the monomer unit for nucleic acids and are composed of *nitrogenous base, 5-carbon sugar and a phosphate group*.

Nucleic acids are biopolymers of nucleotide monomers.

- **DNA (MORE STABLE):** carrier of genetic information; double-stranded
- **RNA (LESS STABLE) :** intermediate in expression of genetic information. RNA can form secondary structure (as in tRNA) by hydrogen bonding with itself. Not all forms of RNA are intermediates in expression of genetic information; single-stranded (usually).
  - **Types of RNA:**
    - tRNA: transfer RNA, holds amino acids used in protein synthesis, remember WOBBLE POSITION(Inosine)!
    - rRNA: ribosomal RNA, part of the ribosome
    - siRNA: small interfering RNA, short term silencing of pleiotrophin coding genes, targets mRNA for degradation
    - miRNA: micro RNA, silencing and post-transcriptional regulation of gene expression. etc. serve a wide array of different purposes (esp. Compared to DNA). Can also catalyze reactions (Ribozyme).

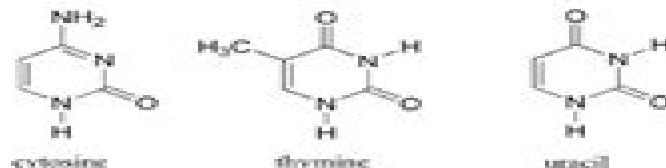
## References

Use resonance to help to differentiate between all four: If needed nitrogen will donate.

- Purines (2 rings:pyrimidine and imidazole) - Adenine, Guanine are purines derivatives in nucleic acid



- Pyrimidines (one ring) - Cytosine, Thymine, and Uracil (in RNA only) are pyrimidine derivatives in nucleic acids



- A-T/U bond has 2 H-bonds
- G- C bond has 3 H-bonds

# Acs Biochemistry Chemistry Test Study Guide

**Minjie Lin**

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## **Table of Contents Acs Biochemistry Chemistry Test Study Guide**

1. Understanding the eBook Acs Biochemistry Chemistry Test Study Guide
  - The Rise of Digital Reading Acs Biochemistry Chemistry Test Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Acs Biochemistry Chemistry Test 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 Acs Biochemistry Chemistry Test Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Acs Biochemistry Chemistry Test Study Guide
  - Personalized Recommendations
  - Acs Biochemistry Chemistry Test Study Guide User Reviews and Ratings
  - Acs Biochemistry Chemistry Test Study Guide and Bestseller Lists
5. Accessing Acs Biochemistry Chemistry Test Study Guide Free and Paid eBooks
  - Acs Biochemistry Chemistry Test Study Guide Public Domain eBooks
  - Acs Biochemistry Chemistry Test Study Guide eBook Subscription Services

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