

AP Chem Unit 2

bonds

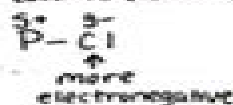
- based on electronegativity



* electronegativity = measure of how well atoms attract shared electrons

X-X
nonpolar
(same element)

X-Y
polar
(diff. element)



* greater diff. in electronegativity = more polar

* polar covalent bond = atom w/ greater electronegativity will have partial negative charge

- interstitial alloy: significant difference in atomic radius
smaller atoms fill in gaps



- substitutional alloy: 2 elements in which the atomic radius is similar



- metal + nonmetal = ionic

- nonmetal + nonmetal = covalent

- good conductor of electricity = metallic bonding

- solid doesn't conduct but as liquid does = ionic bonding

- solid that doesn't conduct & low melting point = covalent molecular

- solid that doesn't conduct & high melting point = covalent network

* metallic bonding = sea of mobile valence electrons
↳ good conductors



Bond Length and Bond Energy

H-F

H-Cl

H-Br

H-I

- shortest bond
- hard to break

- longest bond
- easy to break

C-C

C=C

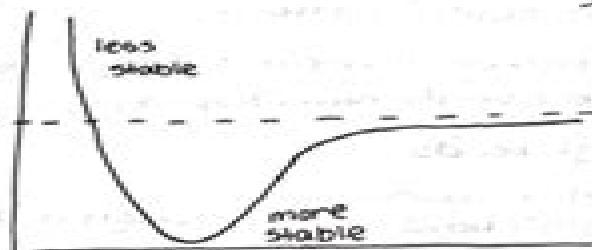
C≡C

- easy to break
- longest bond

- hard to break
- shortest bond

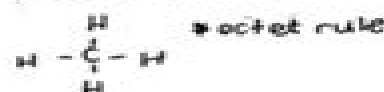
bond length increases

as bond energy increases it becomes harder to break and bond length is shorter

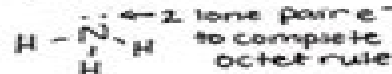


lewis dot diagrams

CH₄ = 8 valence e⁻



NH₃ = 8 valence e⁻



H₂O = 8 valence e⁻



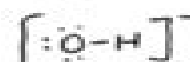
CH₂Cl₂ = 20 valence e⁻



NH₄⁺ = 8 valence e⁻



OH⁻ = 8 valence e⁻



Ap Chem Lab 10 Answers

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Ap Chem Lab 10 Answers:

CliffsNotes AP Chemistry Bobrow Test Preparation Services, 2009-02-09 The book itself contains chapter length subject reviews on every subject tested on the AP Chemistry exam as well as both sample multiple choice and free response questions at each chapter's end Two full length practice tests with detailed answer explanations are included in the book

AP Chemistry Premium, 2024: 6 Practice Tests + Comprehensive Review + Online Practice Neil D. Jespersen, Pamela Kerrigan, 2023-07-04 A guide to taking the Advanced Placement exam in chemistry featuring a review of major chemistry concepts practice and diagnostic tests test taking strategies an overview of the test and practice problems AP Chemistry Premium, 2025: Prep Book with 6 Practice Tests + Comprehensive Review + Online Practice Neil D. Jespersen, Pamela Kerrigan, 2024-07-02 Be prepared for exam day with Barron's Trusted content from AP experts Barron's AP Chemistry Premium 2025 includes in depth content review and practice It's the only book you'll need to be prepared for exam day Written by Experienced Educators Learn from Barron's all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips strategies and study advice for exam day it's like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 6 full length practice tests 3 in the book and 3 more online plus 3 short diagnostic tests for assessing strengths and areas for improvement and detailed answer explanations for all questions Strengthen your knowledge with in depth review covering all units on the AP Chemistry exam Reinforce your learning with more than 300 practice questions throughout the book that cover all frequently tested topics Learn what to expect on test day with essential details about the exam format scoring calculator policy strategies for all question types and advice for developing a study plan Robust Online Practice Continue your practice with 3 full length practice tests on Barron's Online Learning Hub Simulate the exam experience with a timed test option Deepen your understanding with detailed answer explanations and expert advice Gain confidence with scoring to check your learning progress Power up your study sessions with Barron's AP Chemistry on Kahoot additional free practice to help you ace your exam *AP Chemistry Premium, 2026: Prep Book with 6 Practice Tests + Comprehensive Review + Online Practice* Barron's Educational Series, Neil D. Jespersen, Pamela Kerrigan, 2025-07 Be prepared for exam day with Barron's Trusted content from AP experts Barron's AP Chemistry Premium 2026 includes in depth content review and practice It's the only book you'll need to be prepared for exam day Written by Experienced Educators Learn from Barron's all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent changes made to the course and exam by the College Board for 2025 and beyond Get a leg up with tips strategies and study advice for exam day it's like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 6 full length practice tests 3 in the book and 3 more online plus 3 short diagnostic tests for assessing strengths and areas for improvement and detailed answer explanations for all questions Strengthen your knowledge with in depth

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