

9. Which statement is TRUE about the most stable conformation of the molecule?



- (A) the *t*-butyl and chloro groups are both equatorial and the bromo group is axial
(B) the bromo and chloro groups are both equatorial and the *t*-butyl group is axial
(C) the *t*-butyl and bromo groups are both equatorial and the chloro group is axial
(D) all three groups are equatorial
10. Which Newman projection depicts the lowest energy conformation of (*R*)-3-methylhexane?



11. Which are aromatic?



- (A) I and III
(B) II and IV
(C) II and III
(D) I and II
12. What is the result of hydroboration of 1-methylcyclopentene, followed by oxidation?



- (A) a pair of enantiomers
(B) a pair of diastereomers
(C) a *meso* compound
(D) two achiral compounds

13. Which molecule will have the smallest HOMO-LUMO energy gap?



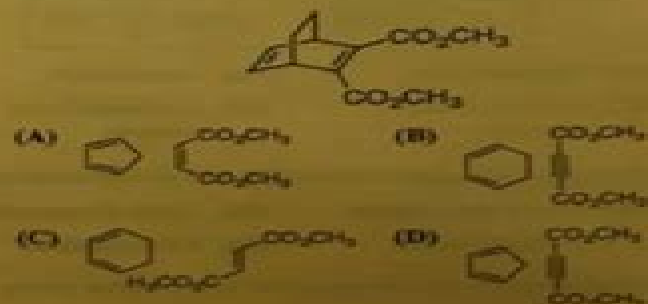
14. Which act as a Brønsted base?



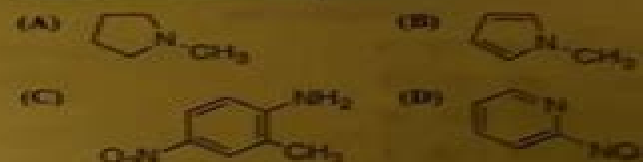
- (A) I
(B) II
(C) I and IV
(D) II and III
15. What is the enantiomeric excess (*ee*) of the product mixture in this reaction?



- (A) 26%
(B) 37%
(C) 63%
(D) 100%
16. Which reactants should be used to form the product?



17. Which compound will be protonated to the greatest extent in 1.0×10^{-2} M aqueous HCl?



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Starkey,2025-02-05 In the 5th Edition of Organic Chemistry David Klein continues to set the standard for how students learn by building on his innovative SkillBuilder approach enabling learners to effectively grasp the complex language of organic chemistry through structured guided practice Joining David Klein for this edition as an author is longtime collaborator Laurie Starkey Cal Poly Pomona whose classroom creativity digital expertise and positive teaching style bring a fresh perspective to Organic Chemistry Her contributions enhance the proven SkillBuilder method infusing it with new pedagogically relevant photo examples that make the material even more accessible and engaging for students The new edition is thoughtfully updated with extensive content revisions refined SkillBuilders and fresh examples all shaped by valuable feedback from instructors It also introduces a wider range of diverse examples vivid illustrations and practical applications tailored to both Organic Chemistry I and II Together Klein and Starkey have crafted a comprehensive and dynamic resource that blends proven techniques with fresh insights ensuring the best learning experience for students *Organic Chemistry Education*

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The 5th International Conference on Chemical Sciences (ICCS) Karna Wijaya,Niko Prasetyo,2025-01-14 Selected peer reviewed extended articles based on abstracts presented at the 5th International Conference on Chemical Sciences ICCS 2023 Aggregated Book

Winter Maintenance and Preservation 2013 ,2013 TRB Transportation Research Record Journal of the Transportation Research Board No 2329 consists of eight papers that explore highway anti icer performance remote sensing of weather and road surface conditions statewide benefits of winter maintenance operations measurement of salt on winter pavements rural variable speed limits extreme weather risk indicators macroscopic traffic parameters and temperature

distribution in soil profiles Pub info **Lubricant Additives** Leslie R. Rudnick, 2017-07-12 This indispensable book describes lubricant additives their synthesis chemistry and mode of action All important areas of application are covered detailing which lubricants are needed for a particular application Laboratory and field performance data for each application is provided and the design of cost effective environmentally friendly technologies is fully explored This edition includes new chapters on chlorohydrocarbons foaming chemistry and physics antifoams for nonaqueous lubricants hydrogenated styrene diene viscosity modifiers alkylated aromatics and the impact of REACH and GHS on the lubricant industry **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office** Library of Congress. Copyright Office, 1976 **Nano Hybrids and Composites Vol. 45** Risa Suryana, Karna Wijaya, 2024-11-12 The articles that are collected in this edition analyse the latest research results in functional nanomaterials and advanced polymers and composites The synthesis methods and processing techniques of metal oxide nanoparticles for sensing dye degradation and absorption biobased polymers and composites for various applications including biomedicine and construction etc are the topics of this journal volume **Biochemical and Organic Compounds for Research and Diagnostic Clinical Reagents** Sigma Chemical Company, 1994 **11th International Conference on Materials Science (ICMS)** Jav Davaasambuu, 2024-10-24 Selected peer reviewed extended articles based on abstracts presented at the 11th International Conference on Materials Science ICMS 2023 Aggregated Book *Chemical and Engineering News*, 1953 **Directory of Published Proceedings**, 1998 Hispanic Media & Market Source, 2004 Directory of Graduate Research American Chemical Society. Committee on Professional Training, 1979 Resins for Aerospace Clayton A. May, American Chemical Society. Division of Organic Coatings and Plastics Chemistry, 1980 *Industrial Arts Index*, 1946

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