

Chapter 11 Alkynes

Chapter Review

General facts about alkynes

- Alkynes contain a carbon-carbon triple bond consisting of a strong σ bond and two weak π bonds. Each carbon is sp hybridized and linear (11.1).



- Alkynes are named using the suffix *-yne* (11.2).
- Alkynes have weak intermolecular forces, giving them low mp's and low bp's, and making them water insoluble (11.3).
- Because its weaker π bonds make an alkyne electron rich, alkynes undergo addition reactions with electrophiles (11.6).

Addition reactions of alkynes

[1] Hydrohalogenation—Addition of HX ($\text{X} = \text{Cl}, \text{Br}, \text{or I}$) (11.7)



- Markovnikov's rule is followed. H bonds to the *less* substituted C in order to form the more stable carbocation.

[2] Halogenation—Addition of X_2 ($\text{X} = \text{Cl or Br}$) (11.8)



- Anti addition of X_2 occurs.

[3] Hydration—Addition of H_2O (11.9)



- Markovnikov's rule is followed. H bonds to the *less* substituted C in order to form the more stable carbocation.
- The unstable enol that is first formed rearranges to a carbonyl group.

Smith, J. G., & Smith, B. E. R. (2019). Chapter 11: Alkynes. In Student study guide/solutions manual to accompany Organic chemistry, sixth edition (pp 11/1-11/23). New York: McGraw-Hill Higher Education.

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T. W. Graham Solomons



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Solutions Manual with Answers to All Questions, Analytical Chemistry, Principles and Techniques Larry G. Hargis, 1987-12 **Student Solutions Manual, Chemistry, Principles & Practice, Second Edition** John M. DeKorte, 1997 **Student Solutions Manual to Accompany Chemistry** William Joseph Pietro, 1990

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Organic Synthesis Michael Smith, 2024-08-13 Organic Synthesis 5e provides a reaction based approach to this important branch of organic chemistry Updated and accessible this eagerly awaited revision offers a comprehensive foundation for graduate students coming from disparate backgrounds and knowledge levels to provide them with critical working knowledge of basic reactions stereochemistry and conformational principles This reliable resource uniquely incorporates molecular modeling content problems and visualizations and includes reaction examples and homework problems drawn from the latest in the current literature There have been advancements in organic reactions particularly organometallic reactions and there is a need to show how these advancements have influenced current organic synthesis The goal is to revise and update the examples of reaction examples taken from the synthesis literature from about 2017 2023 The reactions illustrate those that are used most often in modern organic synthesis but recent examples will show their current relevance Where new approaches and new reactions have been developed for organic synthesis examples will be added as new material Provides new content reaction examples and study problems from recent research Features improved organization new art and new chapter content on process chemistry and green organic chemistry Includes revised homework for each chapter with new examples and questions **Chemistry** John S. Phillips, Cheryl Wistrom, 2000 *Solutions Manual and Study Guide to Accompany Introduction to Organic Chemistry, 4th Ed* Paul A. Bartlett, Judith G. Koch, 1992

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