

Welcome Back

Schedule

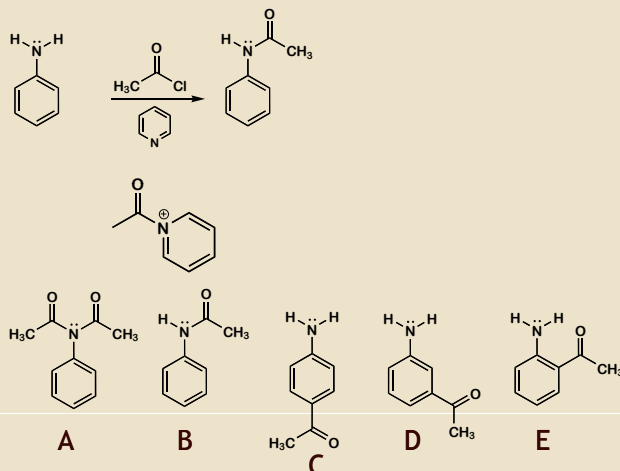
This week finish Chapter 20 and start 21

Week from Thursday, April 23, Exam 3

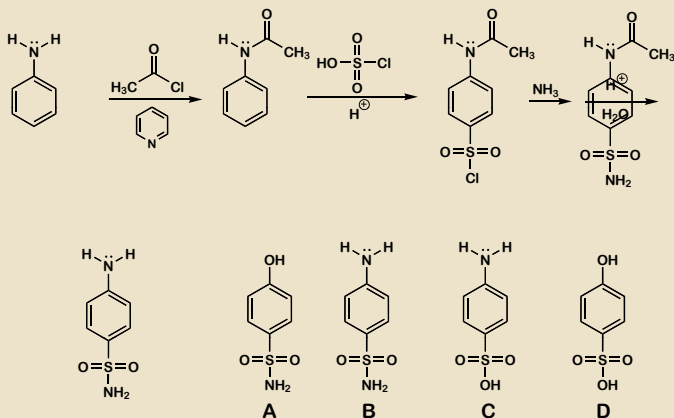
Exam 3 will cover Chapters 18,19,20, and 21

Before final we will cover Carbohydrates(22) and Lipids (23) and perhaps a bit more.

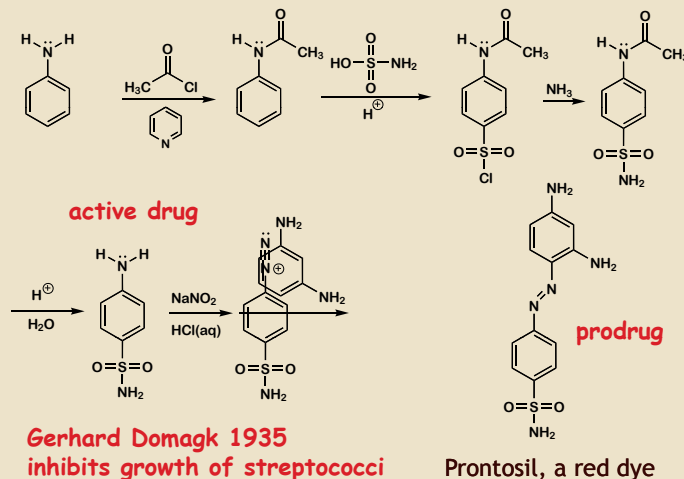
Predict the product of the following reaction.



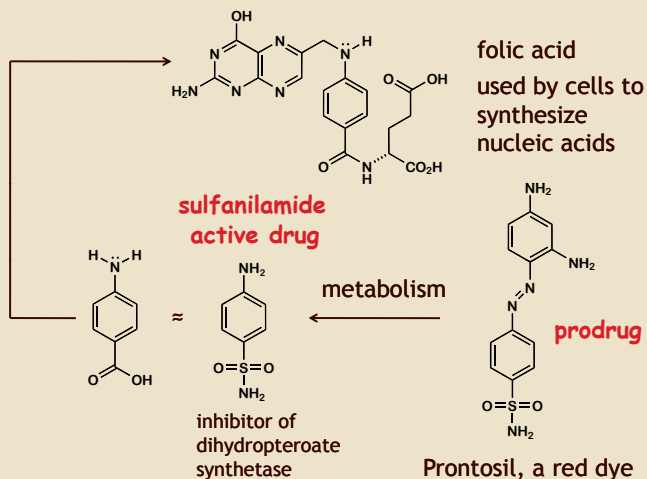
Predict the product of the following reaction sequence.



Predict the product of the following reaction sequence.



The first commercially available antibiotic



4102 *J. Org. Chem.*, Vol. 36, No. 26, 1971

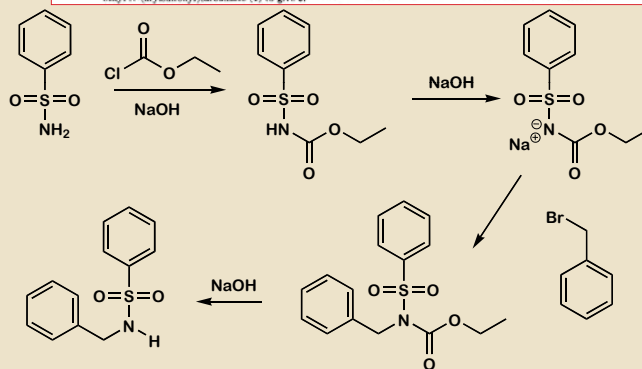
N-Monoalkylation of Sulfonamides

WALTER J. GENSLER,^{1a} FORREST J. FRANK, SUMENDRA K. DIEER, AND JOSEPH W. LAUBER

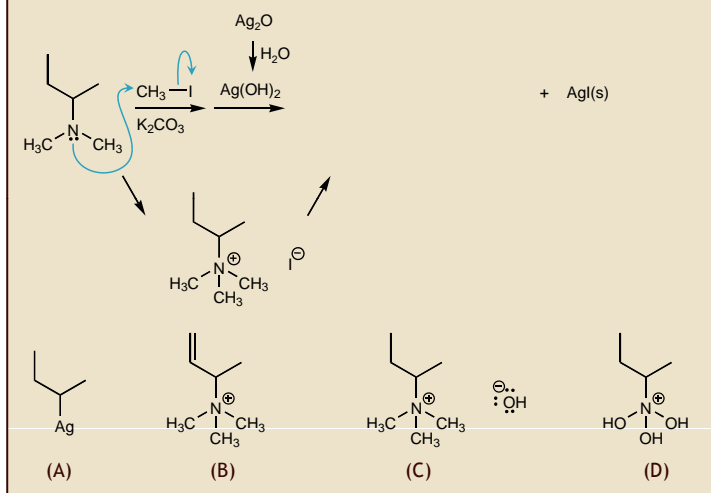
Department of Chemistry, Boston University, Boston, Massachusetts 02215, and

Division of Science, Illinois Wesleyan University, Bloomington, Illinois 61701

The present paper describes a reliable two-stage process for preparing N-monoalkyl sulfonamides 5 from the corresponding alkyl bromide without going through the alkylamine. The method calls for alkylation of the sodio derivative 3 of sulfonamide 2, followed by mild saponification and decarboxylation of the resulting ethyl N-(arylsulfonyl)carbamate (4) to give 5.

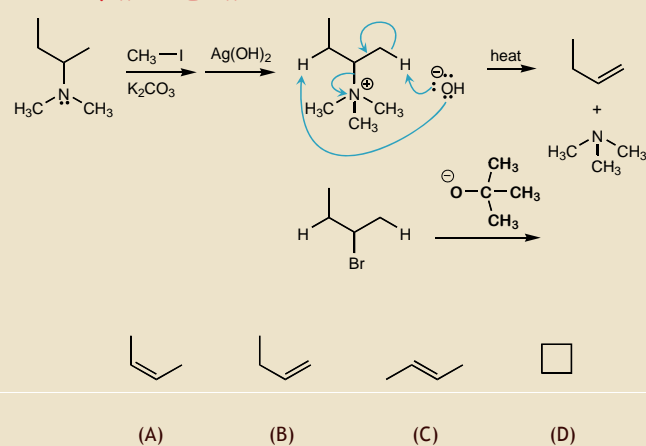


Predict the organic product of the following reaction sequence.

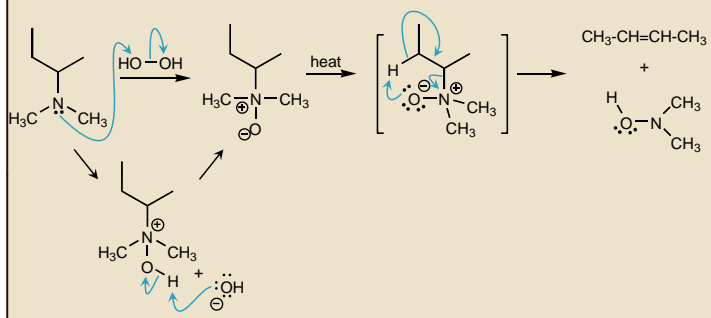


Predict the major product of the following reaction sequence.

Hofmann Elimination

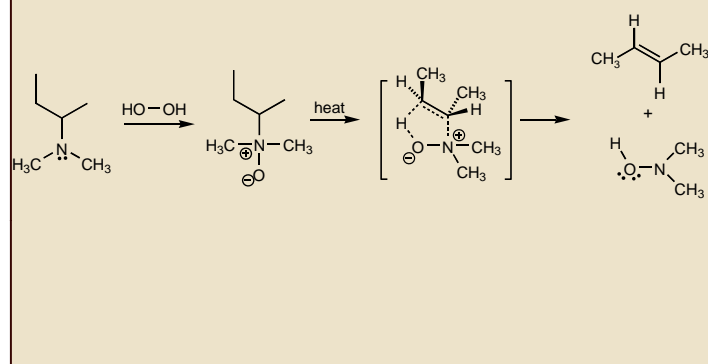


Using the curved arrow formalism show the bond making and bond breaking that occurs in the following reaction.

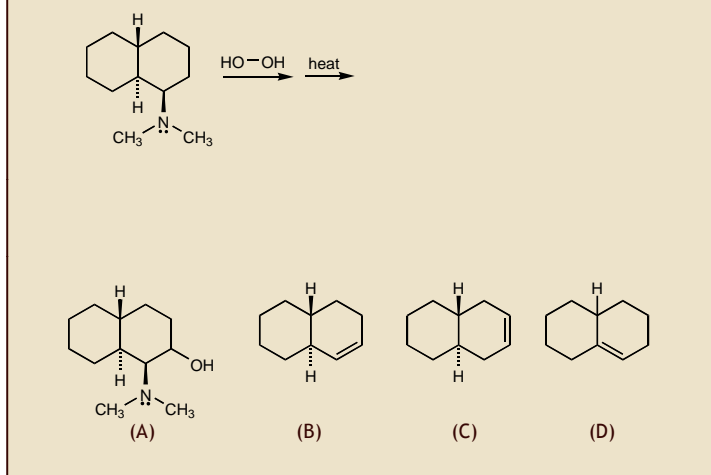


Using the curved arrow formalism show the bond making and bond breaking that occurs in the following reaction.

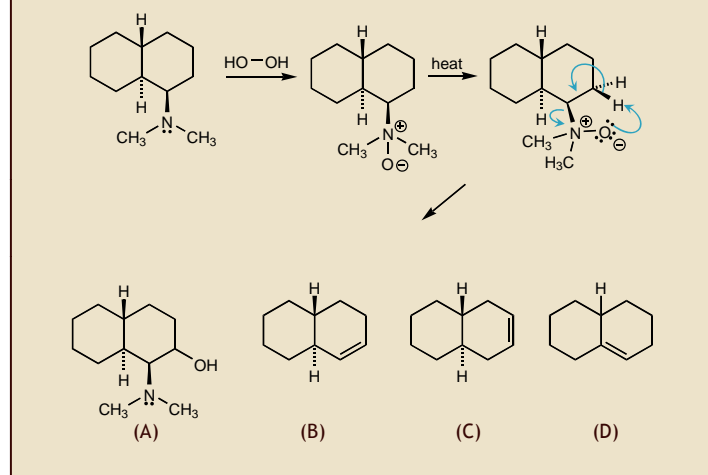
Cope Elimination



Predict the product formed in the following reaction sequence.

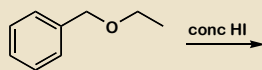
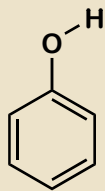


Predict the product formed in the following reaction sequence.

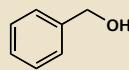


Chapter 21

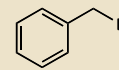
Phenols and Aryl Halides: Nucleophilic Aromatic Substitution



Predict the products



i.



ii.



iii.



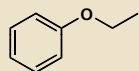
iv

A i + iii

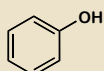
B i + iv

C ii + iii

D ii + iv



Predict the products



i.



ii.



iii.



iv

A i + iii

B i + iv

C ii + iii

D ii + iv