

Massachusetts Institute of Technology

Organic Chemistry 5.13

October 2, 2006
Prof. Timothy F. Jamison

Assignment and Study Guide for Unit II

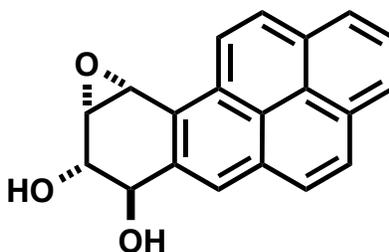
The Chemistry of Ethers, Epoxides, and Sulfides

Some Important Ethers, Epoxides, and Sulfur-containing Molecules



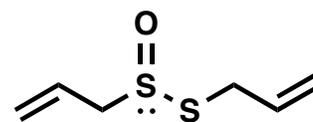
diethyl ether

organic solvent,
19th-century anesthetic



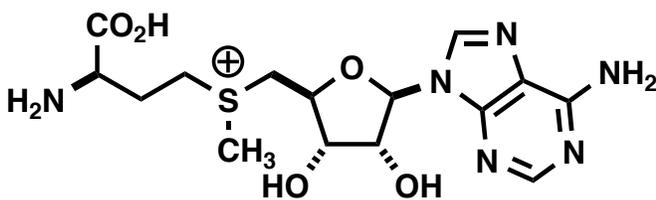
benzo[a]pyrene-7,8-diol 9-10 epoxide

potent carcinogen



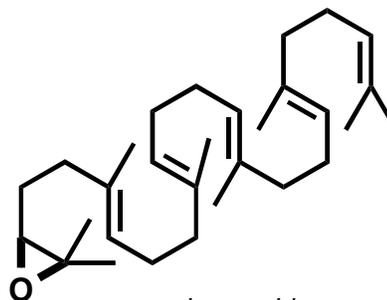
allicin

odor of garlic



S-adenosylmethionine

cellular methylating agent
("nature's methyl iodide")



squalene oxide

precursor to natural steroids

Reading Assignment

McMurry

Chapter 18 (pp. 639-671)

Problem Set 3: Chapter 18 problems: 3–6, 9, 13–15, 18, 22–23, 27, 30, 33, 39, 41, 44, 47–52–56.

Problem Set 3 is due Wed., October 11, 12:05 p.m. (in lecture, before lecture).