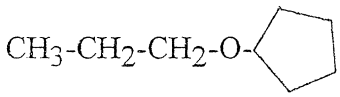
2.

A. Draw structures for the following compounds:

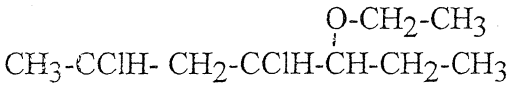
1-phenyl-1,2-epoxybutane

dimethylsulfide

B. Name the following compounds



(Common Name)



(IUPAC Name)

3.

Imagine that you have treated *cis*-2,3-epoxy-3-methylpentane with aqueous acid in a ring-opening reaction.

a. Draw the epoxide, showing stereochemistry

b. Draw and name the product. Show via a mechanism the stereochemistry of this product.