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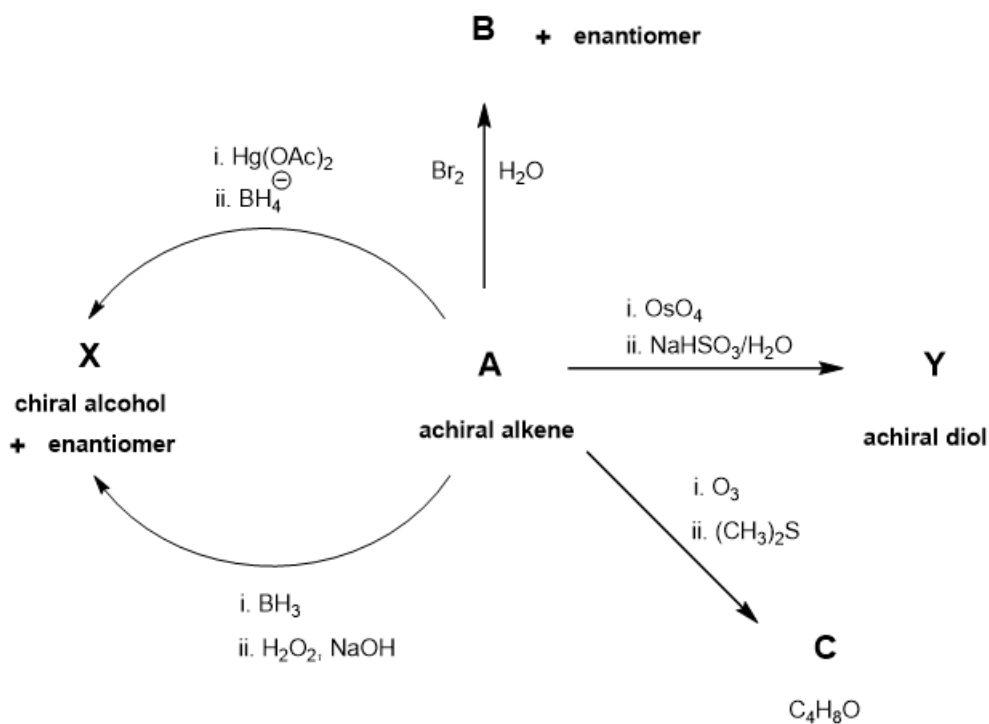
Compound A is an achiral alkene of formula C_8H_{16} . The NMR of A is shown below.

Oxymercuration of A gives a chiral alcohol, X, plus its enantiomer. Hydroboration gives the same products, X, as does the oxymercuration reaction.

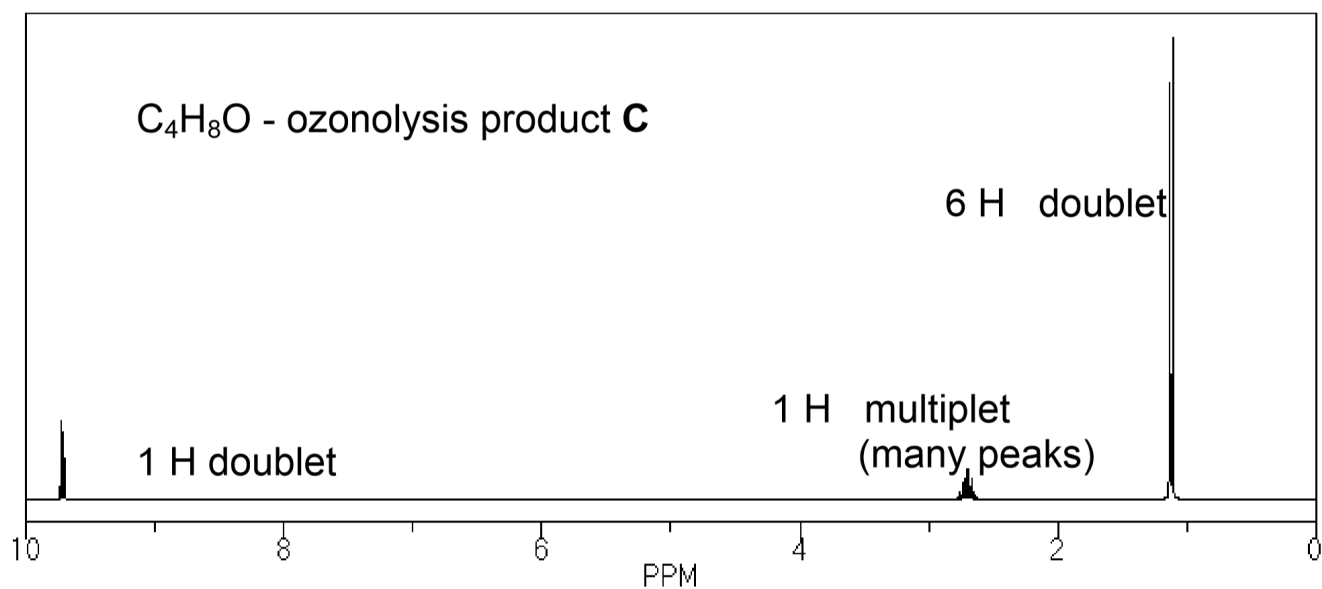
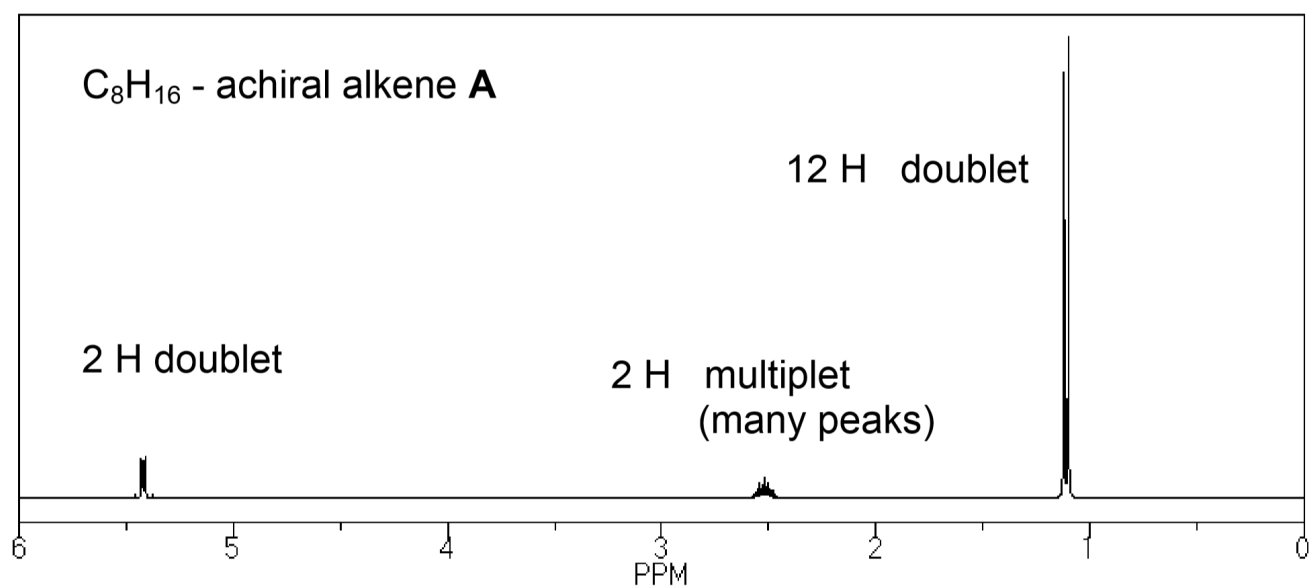
Bromine addition in H_2O gives compound, B, and its enantiomer.

Oxidation of A by OsO_4 gives an achiral diol, Y.

Ozonolysis of A gives a single compound C, with formula C_4H_8O . C has the NMR shown below.



Draw structures for A, B, and C on your answer sheet. (You do not need to give structures for X and Y)



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