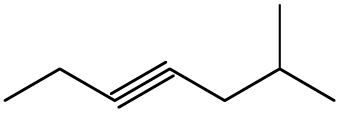
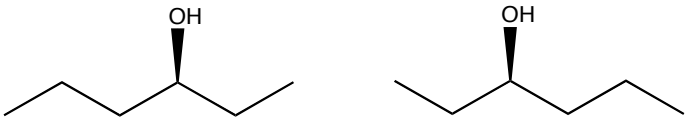
Organic Reactions 2 • CHEM 234

1) You wish to synthesize the compound:



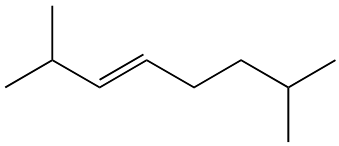
Using only bromoethane, CH_3CH_2Br and 1-bromo-2-methyl-propane, $CH_2BrCH(CH_3)_2$ as your only sources of carbon, outline the best synthesis for this compound. You may use any reagents, solvents and conditions necessary.

2) Devise a synthesis for the following compound, using only alkyl halides of four (4) carbons or less as a source of carbon atoms.

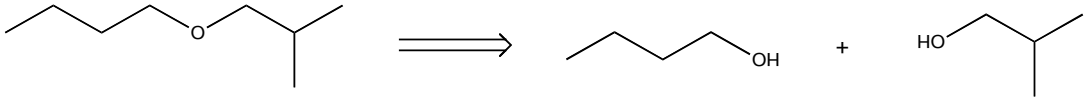
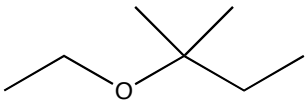


racemic

3. Suggest a reaction scheme for the synthesis of the molecule below using a mono-chlorinated alkane of 5 C's or less as your only source of carbon atoms. You may use other reagents or solvents as needed.



4. Suggest a reaction scheme for the synthesis of the molecule below using the alcohols indicated as your only source of carbon atoms in the final product. You may use other reagents or solvents as needed.



5. Suggest a reaction scheme for the synthesis of the molecule below using ethanol and an alkene of 5 C's as your only source of carbon atoms. You may use other reagents or solvents as needed.