

1. Show how you would synthesize the following ethers in good yield from the indicated starting materials and any other reagents needed.
 - a) Cyclopentyl-n-propyl ether from cyclopentanol and 1-propanol

 - b) n-butyl phenyl ether from phenol and 1-bromobutane

 - c) 2-methoxydecane from a decene

 - d) 1-methoxydecane from a decene

 - e) 1-ethoxy-1-methylcyclohexane from 1-methylcyclohexene

 - f) *Trans*-2,3-epoxyoctane from *trans*-2-octene