

Chapter 9: Alcohols, Ethers, and Related Compounds

Chapter Review

General facts about ROH , ROH_2 , and oxides

All three compounds contain an O atom that is sp^2 hybridized and tetrahedral (9.2).



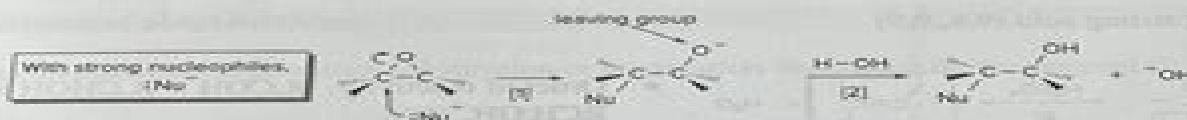
- All three compounds have polar C–O bonds, but only alcohols have an O–H bond for intermolecular hydrogen bonding (9.4).



- Alcohols and ethers do not contain a good leaving group. Nucleophilic substitution can occur only after the OH (or OR) group is converted to a better leaving group (2.7A).



- Epoxides have a leaving group located in a strained three-membered ring, making them reactive to strong nucleophiles and acids HZ that contain a nucleophilic atom Z (9.16).



A new reaction of carbocations (9.9)

- Less stable carbocations rearrange to more stable carbocations by shift of a hydrogen atom or an alkyl group. Besides rearrangement, carbocations also react with nucleophiles (7.12) and bases (8.6).



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Karen C. Timberlake

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