

TABLE 6-3

Some Common Nucleophiles, Listed in Decreasing Order of Nucleophilicity in Hydroxylic Solvents Such As Water and the Alcohols

strong nucleophiles	$(\text{CH}_3\text{CH}_2)_3\text{P:}$ $-\ddot{\text{S}}-\text{H}$ $:\ddot{\text{I}}:-$ $(\text{CH}_3\text{CH}_2)_2\ddot{\text{N}}\text{H}$ $-\text{:C}\equiv\text{N}$ $(\text{CH}_3\text{CH}_2)_3\text{N:}$ $\text{H}-\ddot{\text{O}}:-$ $\text{CH}_3-\ddot{\text{O}}:-$	moderate nucleophiles	$:\ddot{\text{Br}}:-$ $:\text{NH}_3$ $\text{CH}_3-\ddot{\text{S}}-\text{CH}_3$ $:\ddot{\text{Cl}}:-$ $\begin{array}{c} \text{O} \\ \\ \text{CH}_3\text{C}-\ddot{\text{O}}:- \end{array}$ $:\ddot{\text{F}}:-$ $\text{H}-\ddot{\text{O}}-\text{H}$ $\text{CH}_3-\ddot{\text{O}}-\text{H}$
		weak nucleophiles	

