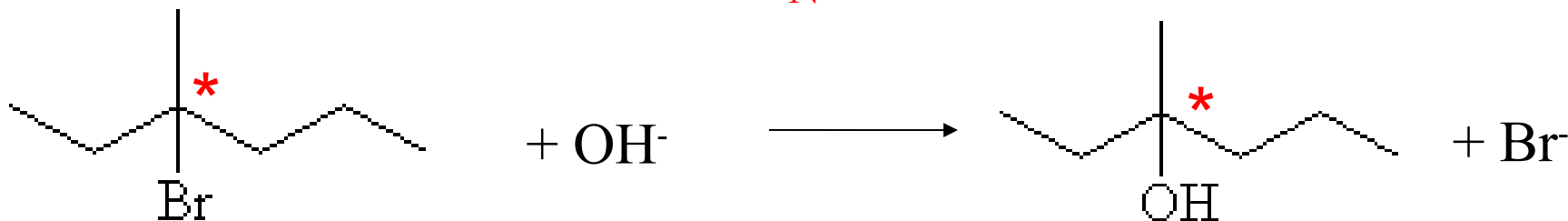


Nucleophilic Substitution

S_N1



reaction is 1st order in $\text{C}_7\text{H}_{15}\text{Br}$
zero order in OH^-

reactants are optically active
products are optically **inactive**

$$\text{rate} = k [\text{R} - \text{X}]$$