



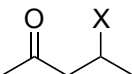


Substitution and Elimination

Summary of the general pattern of reactivity

x = halide, tosylate	Poor nucleophile (e.g. H ₂ O, ROH)	Weakly basic nucleophile (e.g. I ⁻ , RS ⁻)	Strongly basic unhindered nucleophile (e.g. RO ⁻)	strongly basic hindered nucleophile (e.g. t-BuO ⁻)
methyl 	no rxn	Sn2	Sn2	Sn2
primary 	no rxn	Sn2	Sn2 (major) E2 (minor)	E2
secondary 	Sn1 E1 (slow)	Sn2	E2 (major) Sn2 (minor)	E2
tertiary 	Sn1 E1	Sn1 E1	E2	E2
β to anion-stabilizing group (e.g. carbonyl) 	E1CB	E1CB	E1CB	E1CB

Don't forget, there are always exceptions!

