

Properties of S_N1 & S_N2

Property	S_N1	S_N2
Reactivity	$3^\circ > 2^\circ > 1^\circ > CH_3X$	$CH_3X > 1^\circ > 2^\circ > 3^\circ$
Increase OH^- Conc.		S_N2
Decrease OH^- Conc.	S_N1	
Strong Nucleophile		S_N2
Weak Nucleophile	S_N1	
Polarity Increases	S_N1	Decreases S_N2
	Rearrangement and Elimination	No rearrangement Single Step
	Shows Racemization	Complete Inversion
Factors Affecting Rate	Electronic Factors Affect Rate	Steric Factors Affect Rate
Site of Nucleophilic Attack	Nucleophilic Attacks the Intermediate	Nucleophile Attacks Substrate