

Orgo 1 Synthesis Guide

Chapter 7

E2

S_N2 and E2

S_N1 and S_N2

S_N1 and E1

Strong base Weak nucleophile	Strong base Strong nucleophile	Weak base Strong nucleophile	Weak base Weak nucleophile
NaH DMF DMSO	HO ⁻ MeO ⁻ EtO ⁻	I ⁻ Br ⁻ Cl ⁻ RS ⁻ HS ⁻ RSH H ₂ S	H ₂ O MeOH EtOH

	Strong base Weak nucleophile	Strong base Strong nucleophile	Weak base Strong nucleophile	Weak base Weak nucleophile
1°	E2	E2 S _N 2	S _N 2	
2°	E2	E2 S _N 2	S _N 2	
3°	E2	E2	S _N 1	S _N 1 E1

	Sn2	E2	Sn1	E1
Substrate		Any, but	Benzylic > Allylic >	Benzylic > Allylic >
S _N /W N/B	Strong Nucleophile	Strong Base	Weak Nucleophile	Weak Base
Solvent	Polar Aprotic (Naked Anion)	Polar Aprotic (can still occur in polar protic)	Polar Protic (stabilizes carbocation)	
Nucleophile strength	Polar Aprotic: F > Cl > Br > I > OTs Polar Protic: OTs > I > Br > Cl		OTs > I > Br > Cl	
Leaving Group	OTs>I>Br>Cl			
Rearrangements	No		Yes	
Stereochemistry	Inversion of Configuration	Must be periplanar	Inversion and Retention of Configuration	None

Umich Orgo Coursepack Answers

Thomas Griffiths



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