Cheatography

Mechanisms Cheat Sheet by Lex (buttjesus) via cheatography.com/71841/cs/18240/

SN1

1. Proton Transfer

2. Carbocation Formation

3. Ion Attacks Carbocation

Favors 3rd and 2nd degree carbocations Step 2 is RDS

SN2

Single Step:

- Cleavage of bond between C and leaving group
- Formation of bond between C and nucleophile

Favors methyl and 1st degree carbocations Configuration is inverted

E1

- 1. Protonation of alcohol
- 2. Dissociation to carbocation and water
- 3. Deprotonation of cation

Favors 3rd degree carbocation Often requires shifts Dehydration of OH



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E2

Single Step:
- Strong base takes proton

- Loss of halide

Can be used by any degree of alcohol w/ strong base Favors third degree