

4.3 Family Euphorbiaceae [Compatibility Mode] - Microsoft PowerPoint

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CHAP 1 (nucleophilic substitution) - PowerPoint

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Substitution reactions at saturated carbon can be categorized in to two categories as
A) Unimolecular (SN¹) B) Bimolecular (SN²).

SN¹ (Substitution Nucleophilic Unimolecular)

- SN¹ is nucleophilic substitution unimolecular
- Let us understand SN¹ mechanism by considering hydrolysis of t-butyl chloride with aq. alkali producing t-butyl alcohol as product.

Reaction-

$$\begin{array}{c} \text{CH}_3 \\ | \\ \text{H}_3\text{C}-\text{C}-\text{Cl} \\ | \\ \text{CH}_3 \\ \text{t-butylchloride} \end{array} + \text{OH}^- \longrightarrow \begin{array}{c} \text{CH}_3 \\ | \\ \text{H}_3\text{C}-\text{C}-\text{OH} \\ | \\ \text{CH}_3 \\ \text{t-butylalcohol} \end{array} + \text{Cl}^-$$

From the kinetic study it is observed that,

$$\text{rate} \propto [(\text{CH}_3)_3\text{Cl}] \quad \therefore \text{rate} = K [(\text{CH}_3)_3\text{Cl}]$$

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Notes Comments

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