

# Organic Chemistry Test Study Guide: Ch.7 Enolates

-Aldehyde and Ketones -Enolate Chemistry -General Principles

-Aldel Condensation

-And More

#### CONCEPT SUMMARY

#### General Principles of Carbonyl Chemistry:

- a-Carbon Identification: The carbon adjacent to the carbonyl carbon is referred to as the a-carbon, while the hydrogens attached to this a-carbon are known as a-hydrogens.
- Acidity of a-Hydrogens: a-Hydrogens exhibit relatively acidic properties and can be effectively removed by strong bases.
- C-H Bond Weakening: The presence of the electron-withdrawing oxygen in the earbonyl group contributes to the weakening of C-H bonds on a-earbons.
- Enolate Stability via Resonance: Upon deprotonation, the resulting enolate can be stabilized through resonance with the carbonyl group.
- Reactivity of Ketones: Ketones show reduced reactivity towards nucleophiles due to steric hindrance and destabilization of the a-carbanion.
- Impact of Alkyl Groups: An additional alkyl group introduces crowding in the transition state, leading to increased energy and decreased stability of the carbanion due to electron density donation.

#### Points of Enolate Chemistry

#### 1. Keto and Enol Forms

Aldehydes and ketones predominantly exist in the keto form (C=O), but can also exist in the enol form, characterized by a double bond and a hydroxyl group (ene + ol).

#### 2. Tautomerism

Tautomers are isomers that can be interconverted through the migration of a hydrogen atom and a double bond. The keto and enol forms are examples of such tautomers.

#### 3. Formation of Enolates

The enol form can undergo deprotonation to yield an enolate, which serves as a strong nucleophile in chemical reactions.

#### 4. Michael Addition Reaction

In the Michael addition mechanism, an enolate attacks an x,\$-unsaturated carbonyl compound, resulting in the formation of a new carbon-carbon bond.

#### 5. Kinetic vs. Thermodynamic Enolates

Kinetic enolates are favored under conditions of fast, irreversible reactions at lower temperatures using strong, sterically bindered bases.

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