

CHAPTER OVERVIEW

10: Aldehydes & Ketones

Aldehydes and, to a lesser extent, ketones participate in radical reactions of carbohydrates by generating intermediate, oxygen-centered and carbon-centered radicals. The radical addition pictured below provides an example of conversion of a carbonyl compound into an oxygen-centered radical.



I. Introduction

II. Intramolecular Addition of Carbon-Centered Radicals to Aldehyde and Keto Groups

III. Migration of Aldehyde Groups

IV. Addition of Tin- and Silicon-Centered Radicals to Aldehydes

V. Reaction of Samarium(II) Iodide with Aldehydes and Ketones

VI. Ketone Photolysis

VII. Cyclization of Acylsilanes

VIII. Reactions of α -Acyloxyketones

IX. Summary

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