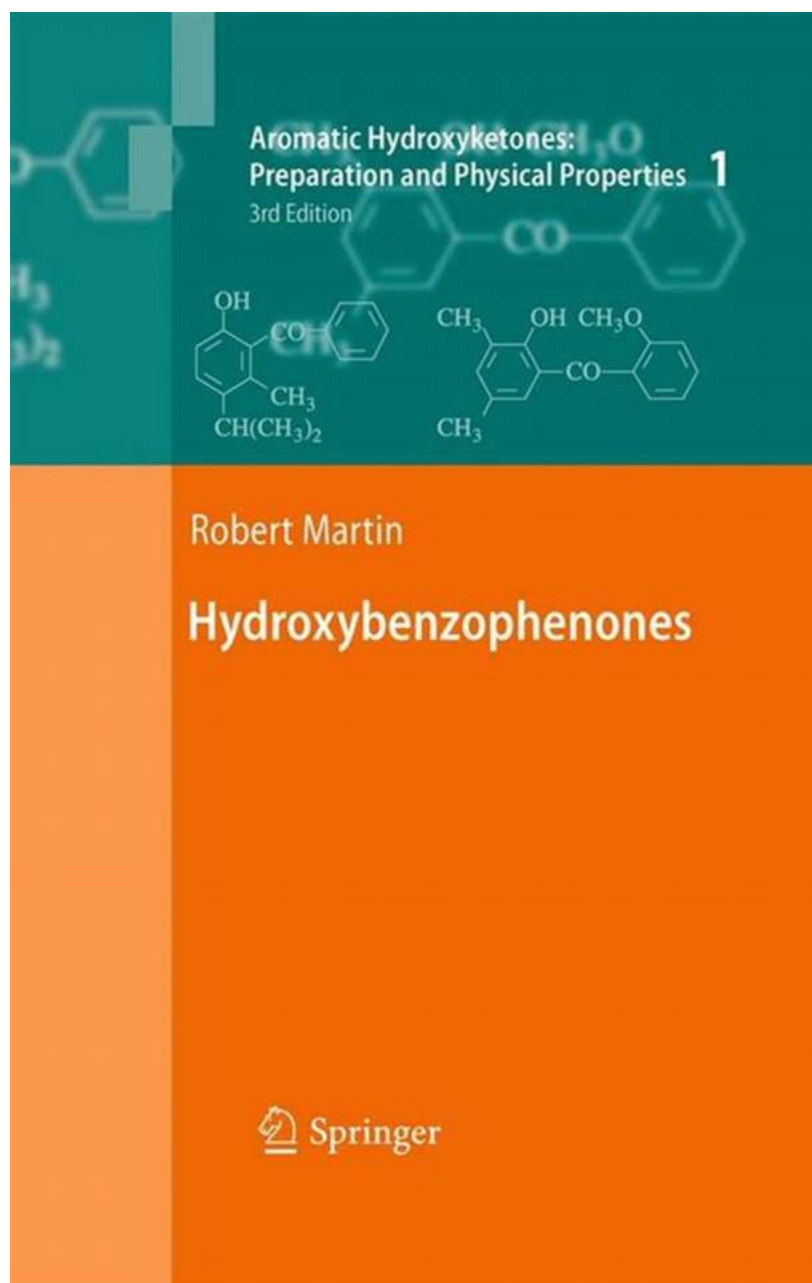


# **A Complete Guide to Aromatic Hydroxyketones: From Butanone C4 to Dotriacontanone C32**

Aromatic hydroxyketones are a fascinating class of organic compounds that possess both hydroxyl and carbonyl functional groups. These compounds exhibit unique properties and have various applications in industries such as pharmaceuticals, perfumes, and flavors. In this article, we will explore the different aromatic hydroxyketones from butanone C4 to dotriacontanone C32, their structures, sources, and potential uses.

## **1. Butanone C4**



Butanone C<sub>4</sub>, also known as methyl ethyl ketone (MEK), is an important starting compound for the synthesis of many aromatic hydroxyketones. It is a colorless liquid with a sweet odor and is commonly used as a solvent in various industries. MEK can be produced by the oxidation of n-butane or by dehydrogenation of secondary butanol. It serves as a precursor for the synthesis of higher aromatic hydroxyketones.



## Aromatic Hydroxyketones: Preparation & Physical Properties: Aromatic Hydroxyketones from Butanone (C4) to Dotriacontanone (C32)

by Baby Professor (2015th Edition)

★★★★☆ 4.9 out of 5

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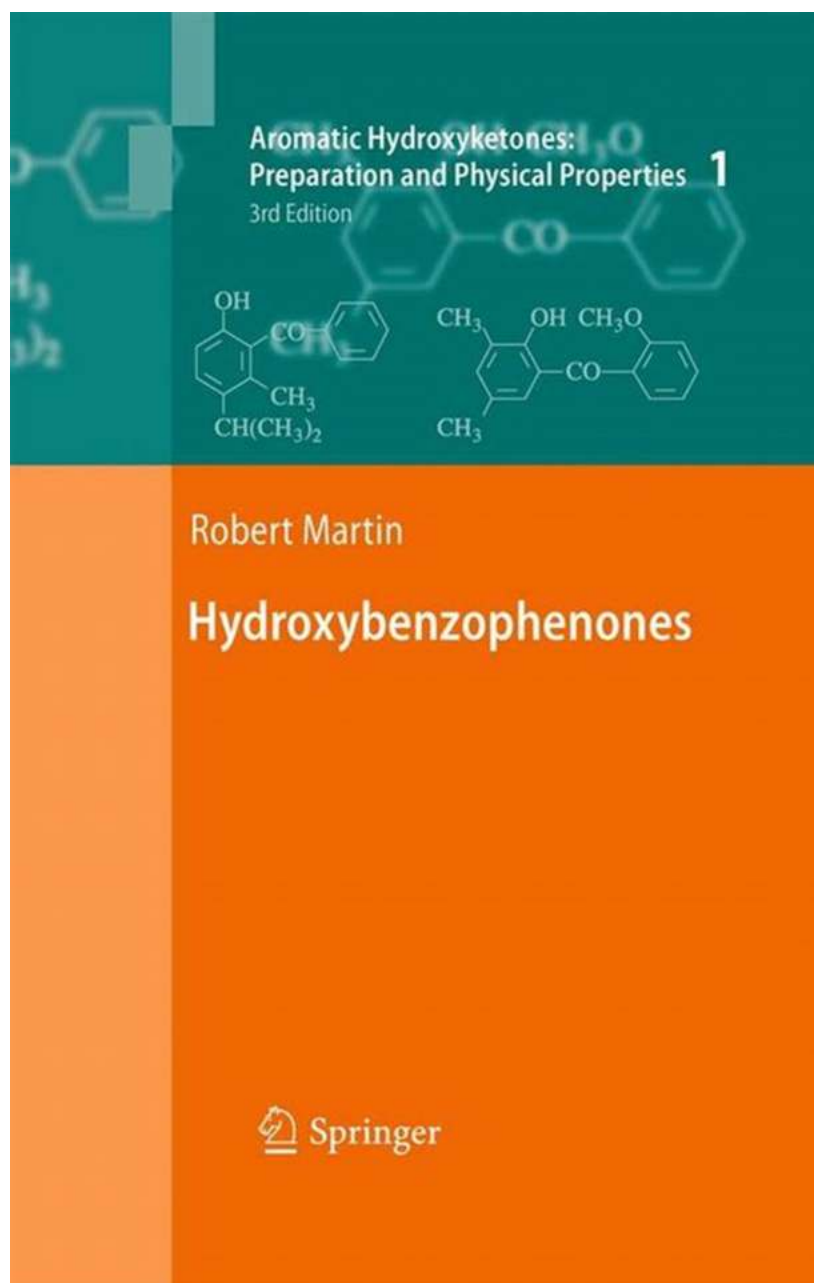
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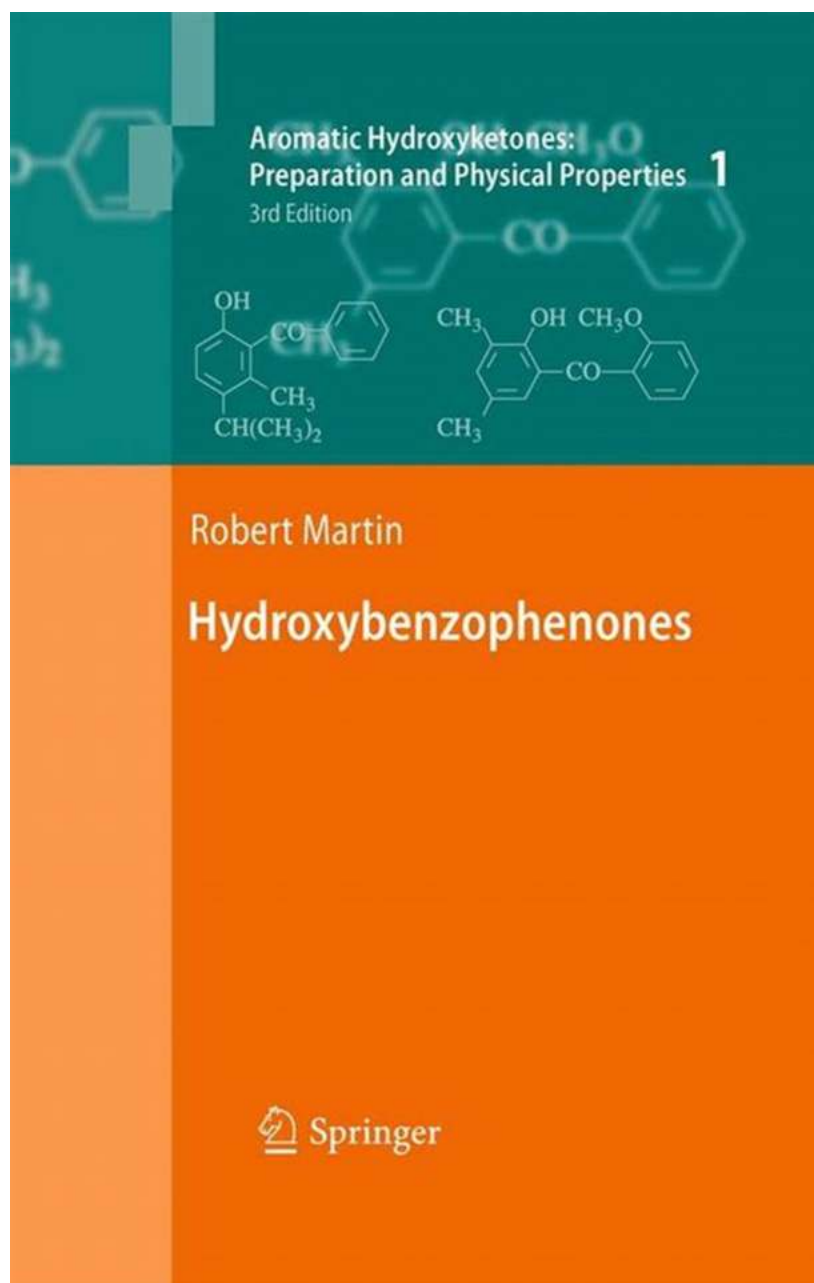


## 2. Pentanone C5



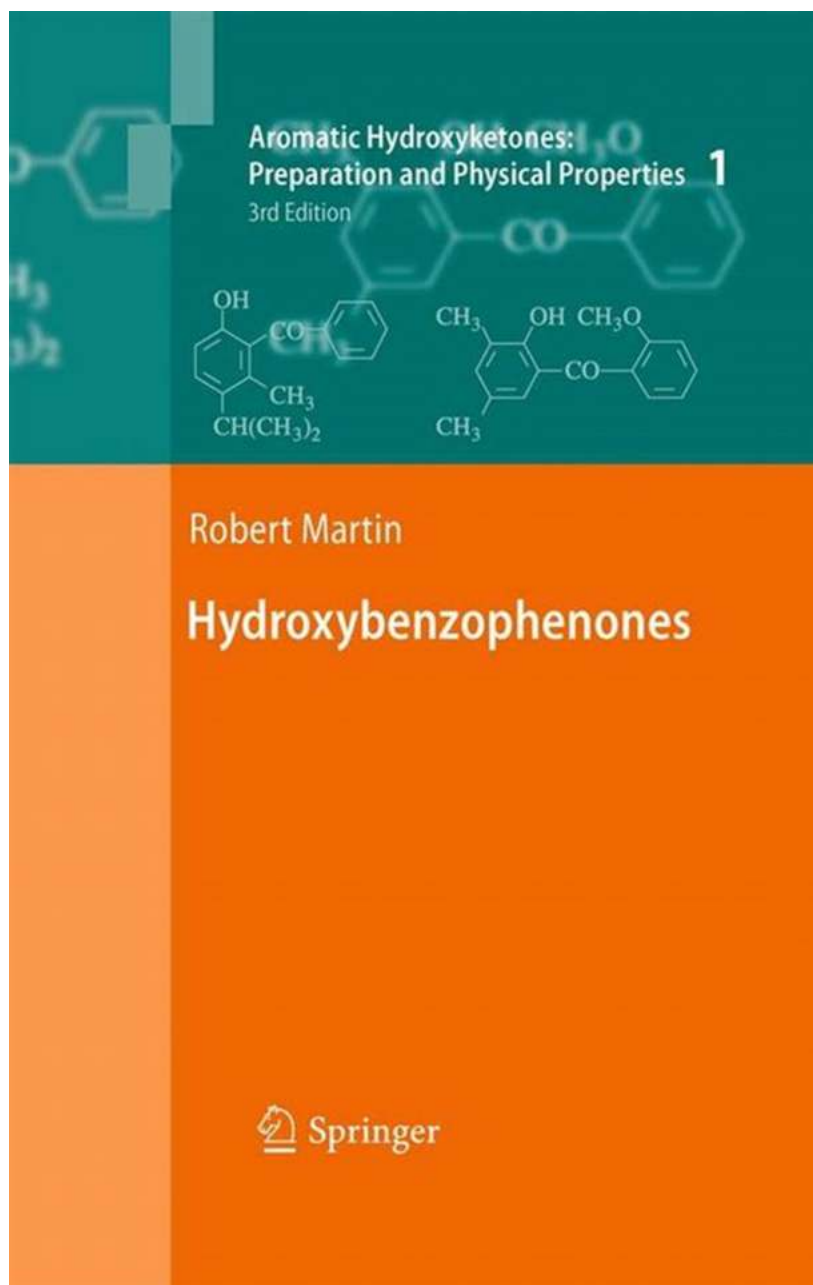
Pentanone C5 is another member of the aromatic hydroxyketone family. It is a colorless liquid with a strong fruity aroma and is commonly used as a flavoring agent in the food industry. Pentanone C5 can be prepared by the oxidation of n-pentane or by the dehydrogenation of isopentanol. It possesses both hydroxyl and carbonyl groups, making it a versatile compound for further modifications.

### 3. Hexanone C6



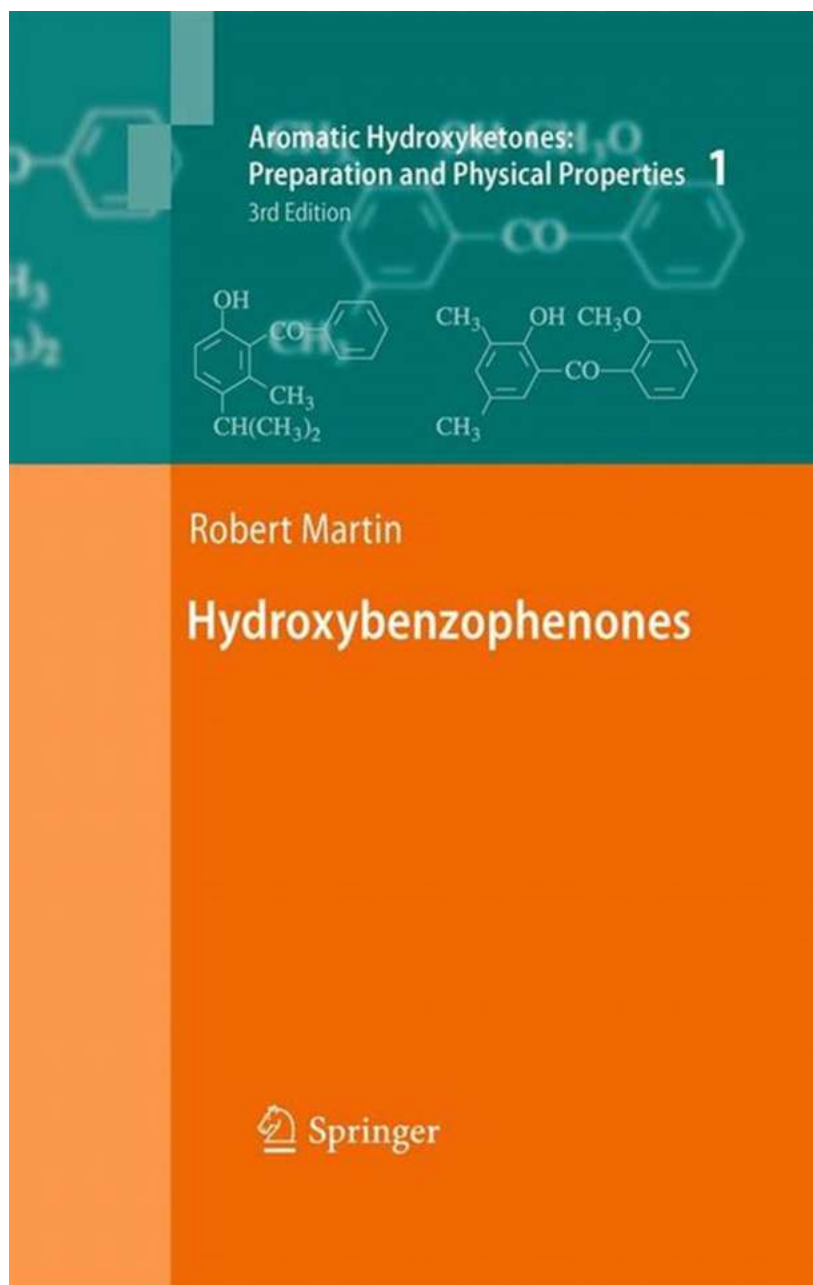
Hexanone C6, also known as caproic ketone, is a six-carbon aromatic hydroxyketone. It is a colorless liquid with a slightly fruity odor and is used as a flavoring agent in the food and beverage industry. Hexanone C6 can be synthesized from the oxidation of n-hexane or by the dehydrogenation of caproic acid. It is an important intermediate compound in the production of higher aromatic hydroxyketones.

## 4. Heptanone C7



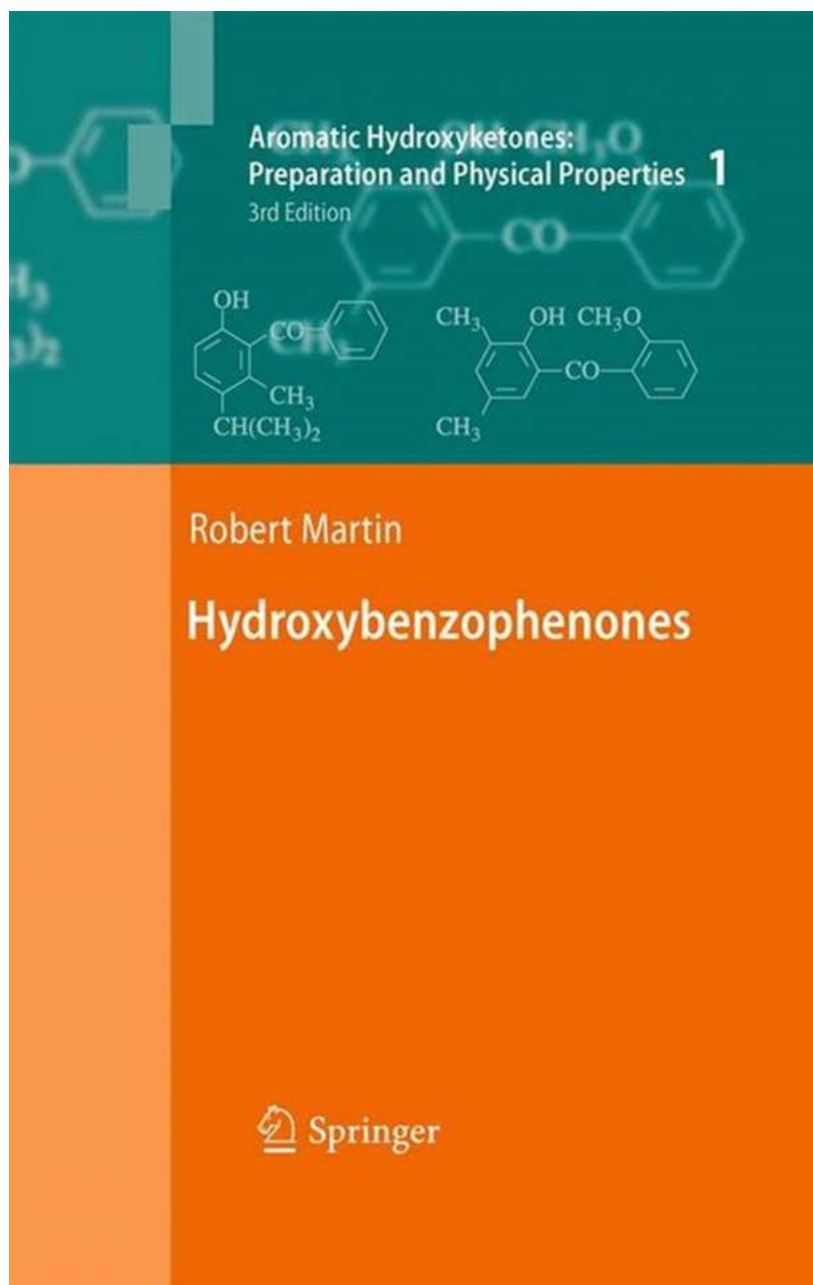
Heptanone C7 is a seven-carbon aromatic hydroxyketone that possesses a strong odor reminiscent of camphor. It can be obtained through the oxidation of n-heptane or by the dehydrogenation of heptanal. Heptanone C7 is widely used as a solvent, flavoring agent, and fragrance ingredient. Its unique chemical properties make it an ideal candidate for various chemical reactions and industrial applications.

## 5. Octanone C8



Octanone C8 is an eight-carbon aromatic hydroxyketone with a distinct fruity and minty aroma. It is commonly used in the fragrance industry to create perfumes and colognes. Octanone C8 can be synthesized from the oxidation of n-octane or by the dehydrogenation of octanol. Its pleasant smell and low toxicity make it a popular choice for aromatic applications.

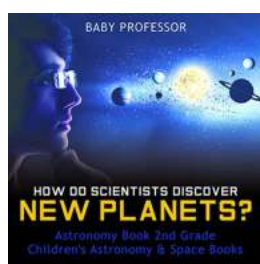
## 6. Dotriacontanone C32



Dotriacontanone C32 is a fascinating member of the aromatic hydroxyketone family due to its unique structure and properties. It is a thirty-two carbon compound that can be obtained from natural sources such as plant essential oils. Dotriacontanone C32 has various applications in the perfumery industry and acts as a precursor for the synthesis of other aromatic compounds.



Aromatic hydroxyketones play a crucial role in various industries, thanks to their versatile nature and unique chemical properties. From butanone C4 to dotriacontanone C32, each compound in this class has its own characteristics and uses. As we uncovered the structures and sources of these aromatic hydroxyketones, we see their potential for developing new perfumes, flavors, pharmaceuticals, and other industrial products. By exploring and understanding these compounds, scientists and researchers can continue to expand the applications and possibilities of aromatic hydroxyketones in the future.



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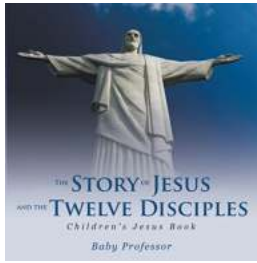
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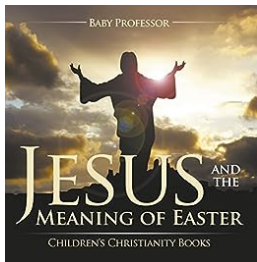
An important resource for the synthesis of intermediates of specialty chemicals, pharmaceuticals and fine chemicals. Aromatic Hydroxyketones from Butanone to Dotriacontanone provides the reader with exhaustive information covering structure, preparation, physicochemical characteristics, as well as a related bibliography. The handbook is presented in dictionary style, with a logical classification of the ketones, making the information easily available for consultation. The book is aimed at those working in research, development and

production applications in various industries (chemistry, pharmacy, cosmetics, paints and perfumes).



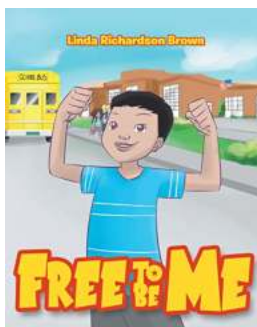
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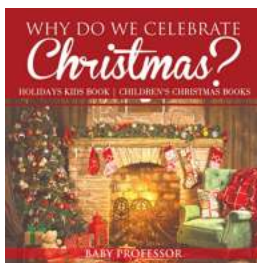
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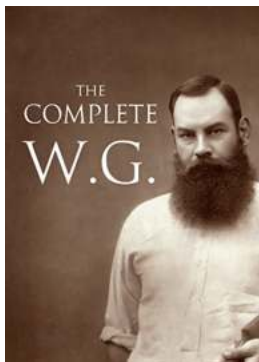
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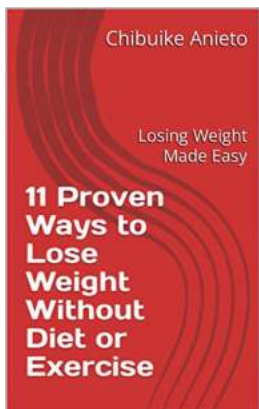
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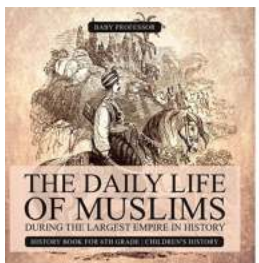
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