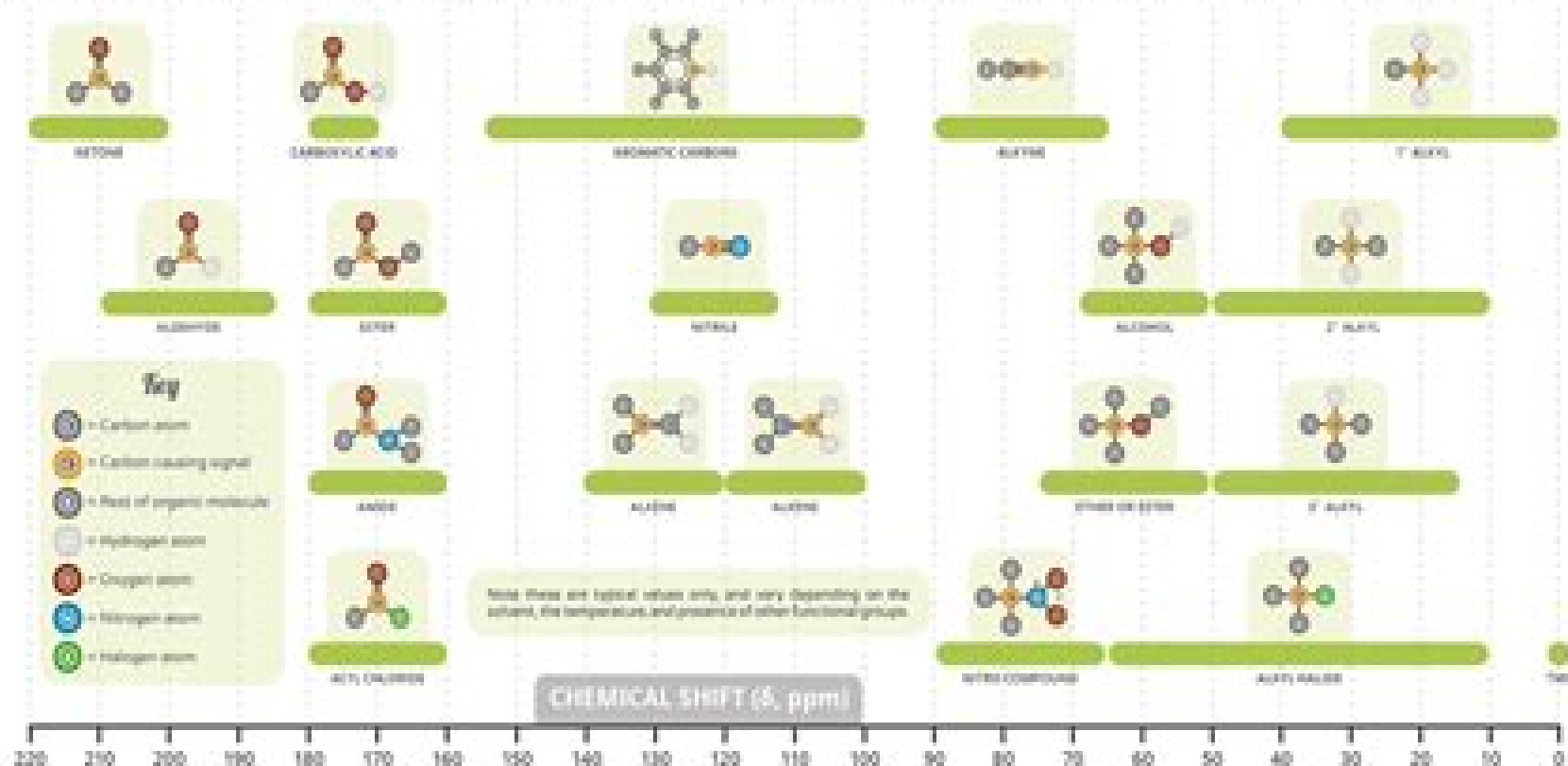


# A GUIDE TO $^{13}\text{C}$ NMR CHEMICAL SHIFT VALUES

Nuclear Magnetic Resonance (NMR) is a commonly used technique for organic compound structure determination. In  $^{13}\text{C}$  NMR, applying an external magnetic field causes the nuclei spin to flip. The environment of the carbon atom in the molecule affects where the signal is seen on the resultant spectrum.



$^{12}\text{C}$  99%

$^{13}\text{C}$  1%

Only 1% of carbon atoms are carbon-13, atoms which have one more neutron than carbon-12. NMR doesn't work for carbon-12, as its nucleus doesn't have a 'spin'. The frequency required to 'flip' a carbon-13 nucleus is around a quarter of that required to flip an hydrogen nucleus in  $^1\text{H}$ -NMR. As the probability of two adjacent carbons in a single molecule being carbon-13 atoms is very low, no splitting of peaks is seen, unlike in  $^1\text{H}$ -NMR.



# Nmr Spectroscopy Guide

**D Siedentop**



## **Nmr Spectroscopy Guide:**

This book delves into Nmr Spectroscopy Guide. Nmr Spectroscopy Guide is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Nmr Spectroscopy Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Nmr Spectroscopy Guide
- Chapter 2: Essential Elements of Nmr Spectroscopy Guide
- Chapter 3: Nmr Spectroscopy Guide in Everyday Life
- Chapter 4: Nmr Spectroscopy Guide in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Nmr Spectroscopy Guide. The first chapter will explore what Nmr Spectroscopy Guide is, why Nmr Spectroscopy Guide is vital, and how to effectively learn about Nmr Spectroscopy Guide.
3. In chapter 2, the author will delve into the foundational concepts of Nmr Spectroscopy Guide. This chapter will elucidate the essential principles that need to be understood to grasp Nmr Spectroscopy Guide in its entirety.
4. In chapter 3, the author will examine the practical applications of Nmr Spectroscopy Guide in daily life. This chapter will showcase real-world examples of how Nmr Spectroscopy Guide can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Nmr Spectroscopy Guide in specific contexts. The fourth chapter will explore how Nmr Spectroscopy Guide is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Nmr Spectroscopy Guide. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Nmr Spectroscopy Guide.

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