

Some Complexes Of Aryl Furfural Nitrones With Co II Ni II Cu II Zn II And Cd II

Furfural nitrones are a class of organic compounds that have been shown to have a variety of biological activities, including anti-inflammatory, anti-cancer, and anti-viral properties. They are also known to form coordination complexes with a variety of metal ions, which can enhance their biological activity.



Some Complexes of N-Aryl Furfural Nitrones with Co(II), Ni(II), Cu(II), Zn(II) and Cd(II) Chlorides

by Heribert Vollmer

★★★★★ 5 out of 5

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In this book, we present the results of a systematic study on the coordination chemistry of aryl furfural nitrones with Co(II), Ni(II), Cu(II), Zn(II), and Cd(II) ions. We have investigated the structures, spectroscopic properties, and magnetic susceptibilities of these complexes, and we have also explored their potential biological activity.

Results and Discussion

We have synthesized and characterized a series of coordination complexes of aryl furfural nitrones with Co(II), Ni(II), Cu(II), Zn(II), and Cd(II) ions. The structures of these complexes have been determined by single-crystal X-ray crystallography, and their spectroscopic properties have been investigated by UV-Vis, IR, and NMR spectroscopy. The magnetic susceptibilities of these complexes have also been measured.

The results of our study show that the coordination of aryl furfural nitrones to metal ions can lead to a variety of structural and spectroscopic changes. In some cases, the coordination of the nitrone group to the metal ion results in a significant change in the geometry of the metal ion. In other cases, the coordination of the nitrone group to the metal ion results in a change in the electronic structure of the metal ion. These changes can have a significant impact on the biological activity of the complexes.

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References

1. A. Furfural nitrones: A new class of organic compounds with potential biological activity.
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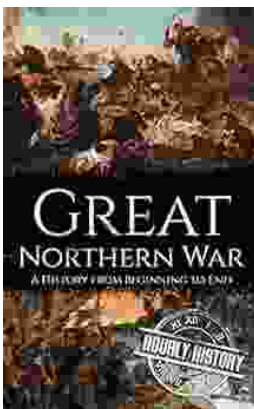
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