



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

By Amer Taqa

Grin Verlag Gmbh Apr 2013, 2013. Taschenbuch. Book Condition: Neu. 210x148x2 mm. This item is printed on demand - Print on Demand Titel. - Scholarly Essay from the year 2011 in the subject Chemistry - Anorganic Chemistry, printed single-sided, grade: 3, University of Mosul (DBS), language: English, abstract: Some new metal(II) dichloride complexes with the ligands substituted nitrones of the general formula $[ML_2Cl_2]$, where $M = Co(II), Ni(II), Cu(II), Zn(II)$ and $Cd(II)$, $L = OCH=CHCH=C-CH=N(O)C_6H_4X$ ($X = H, p-CH_3, CH_3O, CH_3CO, F, Cl$, and Br) have been prepared and characterized by elemental analysis, IR, 1H , ^{13}C NMR and Vis/Uv spectroscopy. The IR spectral data showed that the nitron ligands coordinated with the metal ion through the most active atom of the N-oxide to give square planar coordinate (Cu, Ni) complexes and (Zn, Cd, Co) tetrahedral complexes. No correlation was observed between the N-O vibrations stretching frequency (N-O) of the complexes and the Hammett constants. 32 pp. Englisch.



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