Synthesis and Structural Characterization of a Monofunctionalized Phloroglucin-Derivative: A Precursor for Heterotrinuclear *meta*-Phenylene Bridged Complexes

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Dedicated to Professor Wolfgang Jeitschko on the occasion of his 70th birthday

As part of our synthetic efforts for new triplesalen derivatives, we reacted 2,4,6-triacetyl-1,3,5-trihydroxybenzene (1) with excess Cu(ClO₄)₂ · 6H₂O, imidazole, and ethylenediamine. However, not the triple ketimine derivative was formed but the mononuclear Cu^{II} complex [LCu^{II}(ImH)]ClO₄ · 0.5EtOH · 0.5H₂O (HL = 6-(1-(2-aminoethylimino)ethyl)-2,4-diacetyl-1,3,5-trihydroxybenzene) with only one ketimine function. This complex forms a one-dimensional coordination polymer in the solid state through the apical binding of a keto-oxygen atom of one cation to the Cu^{II} ion of a neighboring cation. Magnetic measurements reveal the presence of weak antiferromagnetic intra-chain interactions.

Key words: Cu Complexes, N Ligands, Magnetic Properties