

## The study of the thermal behavior of Cu(SB)<sub>2</sub> and Ni(SB)<sub>2</sub> complex compounds

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**Abstract** This paper presents a study about the thermal stability of two complex compounds of Ni and Cu with a Schiff base obtained from anthranilic acid and benzaldehyde. For preparing the complexes, the M(CH<sub>3</sub>COO)<sub>2</sub>·2H<sub>2</sub>O (where M is Ni and Cu) were mixed with the Schiff base (SB) into 1:2 raport using methanol like solvent. To determine the thermal stability of the ligand and of the complexes, a C Derivatograph Paulik-Paulik (MOM Budapest) was used. The DTA, DTG and TG curves plotted for the SB show that the decomposition process takes place in liquid phase. From the thermal analysis curves of the complexes more exothermic thermal degradation processes were observed.

*Keywords:* Schiff base, thermal behavior, complex compounds Cu, Ni.

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