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Strukturna karakterizacija proizvoda reakcija bakar(II) soli i 1,7-fenantrolina

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Izvedene su reakcije između ekvimolarnih količina CuX_2 soli (X = NO_3^- i $CF_3SO_3^-$) i 1,7-fenantrolina (1,7-phen) u etanolu na sobnoj temperaturi. U ovim reakcijama ne dolazi do koordinacije 1,7-phen liganda za Cu(II) jon, pri čemu su 1,7-HphenNO_3 (**1a** i **1b**) i 1,7-HphenCF_3SO_3 (**2**) dobijeni kao konačni proizvodi. Ova jedinjenja su okarakterisana primenom spektroskopskih metoda i rendgenske strukturne analize. Dobijeni rezultati su poređeni sa rezultatima dobijenim za reakcije istih soli bakra(II) sa 4,7-fenantrolinom, u kojima nastaju $[Cu(NO_3)_2(4,7\text{-Hphen})_2](NO_3)_2$ i $[Cu(CF_3SO_3)(4,7\text{-phen})_2(H_2O)_2]CF_3SO_3$ kompleksi [1].

Structural characterization of the products formed in the reactions between copper(II) salts and 1,7-phenanthroline

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The reactions between equimolar amounts of CuX_2 (X = NO_3^- and $CF_3SO_3^-$) and 1,7-phenanthroline (1,7-phen) were performed in ethanol at room temperature. In these reactions, no coordination of 1,7-phen to the Cu(II) ion was observed and only 1,7-HphenNO_3 (**1a** and **1b**) and 1,7-HphenCF_3SO_3 (**2**) were formed as the final products. These compounds were characterized by spectroscopic and X-ray diffraction techniques. The obtained results were compared with those for the reactions between these two copper(II) salts and 4,7-phenanthroline, resulting in the formation of $[Cu(NO_3)_2(4,7\text{-Hphen})_2](NO_3)_2$ and $[Cu(CF_3SO_3)(4,7\text{-phen})_2(H_2O)_2]CF_3SO_3$ complexes [1].

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