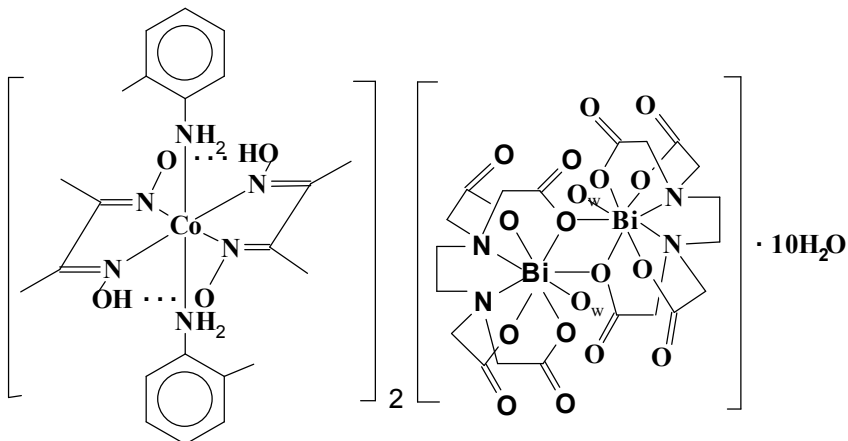


The invention relates to the chemistry of heterometallic coordinative compounds, namely to the decahydrate of di(μ_2 -O)-bis {aquaethylenediamine tetraacetatobismuthate (III)} of 1,6-di(2-toluidine)bis(dimethylglyoximato)cobalt(III) {1,6-[Co(2-tol)₂(DH)₂]₂[Bi₂ (H₂O)₂(Edta)₂]}·10H₂O, where 2-tol=2-CH₃ C₆H₄NH₂, DH₂=CH₃C(NO₂)C(NO₂)CH₃, H₄ Edta=(HOOCCH₂)₂N(CH₂)₂N(CH₂COOH)₂. The given complex, as a result of the low-temperature pyrolysis and short-time high-temperature posttreatment, can form polycrystalline powder of BiCoO₃. The proposed invention may be applied in radio electronics.

Summary of the invention consists in that it is proposed the decahydrate of di(μ_2 -O)-bis {aquaethylenediamine tetraacetatobismuthate (III)} of 1,6-di(2-toluidine)bis-(dimethylglyoximato)cobalt(III) of the formula



as precursor of the bismuth cobaltate.

The result consists in that the bismuth cobaltate formation in such case proceeds in one stage, at a lower temperature (1,1...1,4 times) and more reduced time (2...12 times) compared with the closest solution.

Claims: 2

Fig.: 5