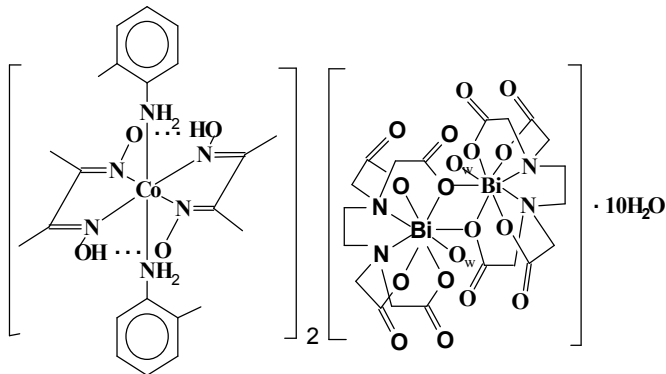


The invention relates to the chemistry of heterometallic coordinative compounds, namely to the decahydrate of di(μ_2 -O)-bis {aquaethylenediamine tetraacetatobismuthate(III)} of 1,6-di(2-toluidine)bis(dimethylglyoximato)cobalt(III)} 1,6-[Co(2-tol)₂(DH)₂]₂ [Bi₂(H₂O)₂(Edta)₂]₂•10H₂O, where 2-tol=2-CH₃C₆H₄NH₂, DH₂=CH₃C(NO₂)C(NO₂)CH₃, H₄Edta=(HOOCCH₂)₂N(CH₂)₂N(CH₂COOH)₂, which may be used in radio electronics as initial compound for bismuth cobaltate obtaining.

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



The compound obtained as a result of low-temperature pyrolysis and short-time high-temperature posttreatment forms a polycrystalline powder of BiCoO₃.

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