

The invention relates to the liquid-phase synthesis radio-amorphous of ortho-titanic acid  $\text{H}_4\text{TiO}_4$  with maximum hydroxylated surface, in which as primary hydrolyzing reagent for precursor titanium tetrachloride  $\text{TiCl}_4$  a concentrated hydrochloric acid is used, and formation of structure of ortho-titanic acid is carried out by deoxidation of hydrolyzed product with powdered  $\text{NaHCO}_3$ .