

A process for preparation of high disperse oxides comprises processes for preparation of chloride compounds, hydrolysis thereof in the flame of burner, treatment of the surface of obtained oxides and isolation of obtained products being carried out in reactors. According to the invention at least one of the processes is carried out giving to components simultaneous displacement along the reactor and at least to one of these components – back and forth movement relative to the wall of reactor and across the flow, returning a part of components from outlet to inlet of at least one of reactors. Applied is also a facility for realizing the method. The invention provides an increase of productivity of technological process of synthesis of highly disperse oxides and increase in quality of end products.