

An invention relates to chemical industry, in particular to obtaining of initial raw material for detergent and cosmetic preparations, feed additives for animals and other purposes. In a process for preparing sodium sesquicarbonate by mixing sodium carbonate, sodium bicarbonate and water the process of mixing is carried out in suspension, which after mixing is divided in sediment of purpose product and liquid phase, being used for the preparation of suspension. In the course of separation of suspension the sediment of purpose product is washed. As washing liquid carbonate-bicarbonate solution is used, which is obtained by dissolution in water of a part of sediment of purpose product. The invention allows to obtain product with increased content of the main substance.