

Chemical modification of branched-chain oligohexamethyleneguanidine on purpose to make new disinfectant

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Abstract

Chemical modification method of branched-chain oligohexamethyleneguanidine (OHMG) – synthesis of dodecyl, octyl derivatives and derivatives with ethyl-, octylchloroacetate, was considered in the article.

The method of alylation of OHMG, including preliminary making of base followed by alkylation by activated alkylhalogenide in dimethylsulfoxide media, was worked out. The researches of synthesized derivatives on test microbe – *Mycobacterium smegmatis* strain ATCC 607 were carried out. Activity of some derivatives higher than activity of OHMG.

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