

ABSTRACT

Master's dissertation: 98 pp., 35 tables, 10 p., 75 Links.

Object of research: decay processes of phenol in aqueous medium.

Subject of research: model aqueous solutions of phenols in the absence and in the presence of humic acids and microorganisms *Pseudomonas* sp. and *Bacillus* sp., which belong to different systematic physiological groups.

Purpose of the work: to explore the effects of degradation of phenol in aqueous media.

In the work, on the example of model solutions of phenol in the absence and in the presence of humic acids and microorganisms of various systematic physiological groups, the results of research of the effect of storage duration, concentration of humic acids and phenol, pH, magnetic processing of the investigated solutions on the results of determining the content of phenol in the solution are given. The obtained results allow to estimate phenol biodegradation depending on the mentioned factors.

PHENOLS, HUMUS SUBSTANCE, BIODEGRADATION, FLUOROMETRIC METHOD, MAGNETIC TREATMENT, MICROORGANISMS