

Abstract:

This graduation thesis deals with a study of the interaction between cetrimide and organic dyes (fluorescein and thymol blue) with the utilization of extraction spectrophotometry, UV-VIS spectrophotometry and fluorimetry.

The aim of this work is to find out, if the tenside and both organic dyes exhibit interactions in their solutions.

It was discovered, that cetrimide influences the emission maximum of a fluorescent peak of fluorescein, if its concentration is high enough in comparison with the dye concentration.

Shifts of an absorption maximum of thymol blue towards the higher wavelenghts were found on the concentration level of cetrimide $1 \cdot 10^{-5} \text{ mol.l}^{-1}$ as the excess of a thymol blue was increased.