

Abstract

This work evaluates and compares interaction of 1-naphthylacetic acid and 1-naphthylacetamide with selected complexing agents. 1-naphthylacetic acid and 1-naphthylacetamide are used as pesticides. From the viewpoint of ecology, the possibility of regulation of the photodecomposition of these pesticides is interesting. Such regulation could be for example arranged by complexation. Cyclodextrins, known for its good capability of interaction with wide spectrum of substances, were chosen as the complexing agents. Next chosen complexing agent was cucurbit[7]uril that, according to literature, could be capable of even stronger interaction than cyclodextrins.

Interactions were studied by methods of affinity capillary zone electrophoresis. The strenght of single interactions was compared and if it was possible, the stability constant of the complex was determined.