STUDY OF COMPLEXATION Zn$^{+2}$ AND Cu$^{+2}$ METALIC IONS BY CHEMICAL AND ELECTROCHEMICAL POLYDIBENZOETHER-CROWN

Dalila Chouder, Djaafar Benachour

Farhat Abbas University, Faculty of Science, Chem. Dept., 19000, Setif, Algeria
E-mail: da_chouder@yahoo.fr

The present work deals with the study of the complexation of Cu$^{+2}$ and Zn$^{+2}$ metallic ions in aqueous medium by poly dibenzo ether crown as a function of three parameters: temperature, time and concentration. The poly dibenzo crown ether was synthesized by two methods: chemically and electrochemically. The behavior of the two polymers was found to be different and very interesting for chemical poly dibenzo crown ether under specific conditions.

This work also showed that doped polymers may have an appropriate electric conductivity that can be improved after complexation; I was noticed that the best results were obtained with the chemical poly dibenzo crown ether.