

Complex Formation of Poly(methacrylic acid)/ Poly(4-vinylpyridine)
and Its Adsorption Characteristics.

Tae Sik Moon, Chong Su Cho, Dong Il Yoo and Yoon Hwan Kook

College of Engineering, Chonnam National University

A polyion complex was formed from poly(methacrylic acid) (PMAA) and poly(4-vinylpyridine) (PVP).

The polyion complex was obtained by mixing PMAA and PVP together in methanol. The structure was examined by means of infrared spectroscopy. The thermal property of the complex was measured by thermogravimetric analysis and differential thermal analysis. The binding of methyl orange and its homologs was examined by the polyion complex.

The effects of urea and KCl on the binding of methyl orange by polyion complex were investigated.

Also the effects of temperature and composition of the polyion complex on the binding of methyl orange were studied.