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On peculiarities of viscometric study of chitosan in acetic acid solution

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Abstract

Some of the approaches to the determination of the values of the intrinsic viscosity of chitosan by viscometry data have been analyzed. It is shown that the feature of the study of chitosan is that the dissolution becomes a polyelectrolyte, which leads to some difficulties in the assessment of its intrinsic viscosity. We claim that using the method developed by Irzhak and Baranov, the intrinsic viscosity can be adequately estimated, and thus the volume occupied by the macromolecule chitosan is determined by the degree of protonation of chitosan macromolecules in solution of acetic acid.