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Ionization of acid-functionalized hyperbranched polyesters

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Abstract

Ionization of second- and third-generation hyperbranched polyesters functionalized by different acids was studied by mathematic simulation of experimental titration curves using the CPESSP programme. It was found that polyesters functionalized with carboxyethyl groups are ionized blockwise, while those functionalized with acrylic groups are ionized stepwise. Moreover, such polyesters show different self-association ability which decreases when going to greater generations. © IDOSI Publications, 2013.

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Keywords

Functionalized hyperbranched polyesters, Ionization, Polyacids, Simulation