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Peculiarities of stable multi-walled carbon nanotubes dispersions formation in the presence of polycarbonic acids

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Abstract

It was shown that multi-walled carbon nanotubes dispersing in the aqueous solutions of polycarbonic acids with different molecular masses leads to breaking their aggregates and formation of their stable dispersions. The poly-carbonic acid molecular mass increase leads to the increase of multi-walled carbon nanotubes amount transferred to the dispersion. The mechanism of multi-walled carbon nanotubes solubilization by poly-acids was suggested.