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Data of one-and two-dimensional NMR spectroscopy in the study of structure and nature of associations of hyperbranched polyester polyol BOLTORN H20-OH

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Abstract

Structure of the hyperbranched polyester of the polyol BOLTORN H20-OH was studied by oneand two-dimensional 1H and 13C NMR spectroscopy in combination with the IR spectroscopy and semiempirical quantum-chemical calculations (method AM1). The polyol structure was shown not to be stereoregular. Three basic types of H-bonding interactions of intra-or intermolecular nature were revealed: C=O...HO, OH...OH, and C=O...HO...HO. © Pleiades Publishing, Ltd., 2010.

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