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Phosphorylation and thiophosphorylation of oligomeric polyesterpolyols of boltorn H20, H30, AND H40

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Abstract

Dialkyl phosphate derivatives of Boltorn H20, H30, and H40 were prepared by the use of ultrasound irradiation in the substitution reactions of the polyesterpolyols with dialkyl chlorophosphates. Unsaturated polyacrylates were obtained by the reactions of Boltorn H20, H30, and H40 with acryloyl and methacryloyl chlorides. The reactions of these polyacrylate esters with O,O-dialkyl dithiophosphoric acids in the presence of Lewis acid catalysts have brought about the formation of the corresponding dithiophosphates. Copyright © Taylor & Francis Group, LLC.

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Keywords

Boltorn H20, H30, and H40, Dithiophosphoric acids, Lewis acid catalysts, Polyesterpolyols, Ultrasound, Unsaturated polyacrylates