One-Pot Synthesis of Well-Defined Amphiphilic and Adaptative Block Copolymers via Versatile Combination of “Click” Chemistry and ATRP

Laetitia Mespouille, Magali Vachaudez, Fabian Suriano, Pascal Gerbaux, Olivier Coulembier, Philippe Degée, Robert Flammang, Philippe Dubois

1. Center of Innovation and Research in MAterials and Polymers (CIRMAP), Laboratory of Polymeric and Composite Materials (LPCM), University of Mons-Hainaut, Place du Parc 20, B-7000 Mons, Belgium
2. Laboratory of Organic Chemistry, University of Mons-Hainaut, Place du Parc, 20, B-7000 Mons, Belgium

E-mail: philippe.dubois@umh.ac.be

Sample characterization.
$^1$H NMR spectrum (500 MHz, CDCl$_3$) of PCL-b-PDMAEMA block copolymer as obtained via “one pot” synthetic route using CuBr.3Bpy as catalyst (entry 3, table 1)