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## Poly(ethylene glycol) methyl ether methacrylate solubility

Work off campus? Learn about our remote access variants of Copolymers metacry acid (MAA) and poly (ethylene glycol) methyl ester metacrilate (PEGMA) have been prepared and their cloud points in aqueous solution have been studied as a function of ratio of comonomers, pH solution, and the presence of hydrophobic comonomers. In acidic conditions, cloud cover falls below 0 degrees Celsius for copolymers with ether content from 25% to 60% due to the formation of hydrophobic etheric-acid complexes. The cloud point also decreases with the pH of the solution. For the equivalent ratio of ether and acid, the cloud point decreases as the length of the PEG chain decreases due to the presence of more hydrophobic methyl and metacrylic groups. Similarly, the point of the cloud decreases when hydrophobic comonomers such as butyl, lauryl or glycidyl-metacrylates are turned on. ©2005 Wiley Periodicals, Inc. *J Polym Sci Part A: Polym Chem* 43: 6095-6104, 2005 The full text of this article is posted on iucr.org unavailable due to technical difficulties. If you are not the author of this article and want to reproduce the material from it in a non-RSC publication, you must formally request permission through the Copyright Resolution Center. For more information, go to our instructions on how to use the Copyright Center page. Authors contributing to THE publication of the RSC (journal articles, books, or chapters of books) should not formally request permission to reproduce the materials contained in this article, provided that the correct recognition is given with the material reproduced. 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Jochum and Patrick Theato<sup>abc</sup> Author of Accessories - Relevant authors of the Institute of Organic Chemistry, University of Mainz, Duesbergweg 10-14, Mainz, Germany b World Class University (WCU) Chemical Convergence Program for Energy and Environment (C2E2), School of Chemical and Biological Engineering, College Seoul National University (SNU), Seoul, Korea with the Department of Materials Science and Engineering, University of Sheffield, Sheffield, UK Email: othpe@uni-mainz.de, theato@uni-mainz.de Polyolitho (ethylene glycol) methyl metacrylate ester (POEGMA) is shown to possess insoluble soluble transitions (UCST type of phase) in a wide variety of alphasity. Samples of different molecular scales ranging from 5 kg of maul to 23 kg of maul No.1, prepared by the RART process and including different finite groups at each end, were analyzed using cloud current measurements. The transitions were abrupt and completely reversible. It has been found that UCST increases with increasing molecular weight. Hydrophobic (alkyle chains) end groups have been found to reduce critical temperature in isopropanol, while rigid aromatic end groups have increased the temperature of the transition. In the thorn mixture of isopropanol/chloroform/POEGMA, UCST decreased with an increase in chloroform concentrations, with 10 vol% of chloroform accounting for a 30 degree Celsius drop. In isopropanol/hexane/POEGMA mixtures, cloud cover increased significantly only at hexagonal oil concentrations above 30 vol, where the temperature of the transition was detected to increase by 2 degrees Celsius. Adding water to isopropanol solutions had a strong effect, with 1 vol% of water causing a drop in the temperature of the transition by 12.5 degrees Celsius. As the length of the solvent chain increased, the point of the cloud increased, while the branches of the hydrocarbon chains lowered the point of the cloud. For example, samples of 23 kg of maul-1-POEGMA were found to have cloud points of 22.0 degrees Celsius in ethanol, 35.7 degrees Celsius in isopentanol and 75.4 degrees Celsius in the dodecanol. You have access to this article Please wait until we download your content... Something went wrong. Try again? Back to the navigation tab Additional PDF information (638K) *Soft Matter*, 2011, 7, 2484-2492 P. J. Roth, F. D. Jochum and P. Theato, *Soft Matter*, 2011, 7, 2484 If you are not the author of this article and you want to reproduce the material from it in the publication of a third party, are not THE RSC, you must formally request permission through the Copyright Center. For more information, go to our instructions on how to use the Copyright Center page. 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