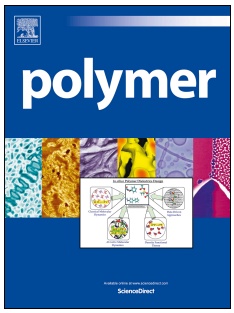
Accepted Manuscript



Tacticity effect on the upper critical solution temperature behavior of Poly(*N*-isopropylacrylamide) in an imidazolium ionic liquid

Chandra Sekhar Biswas, Florian J. Stadler, Zhi-Chao Yan

PII: S0032-3861(18)30819-X

DOI: 10.1016/j.polymer.2018.08.073

Reference: JPOL 20880

To appear in: *Polymer*

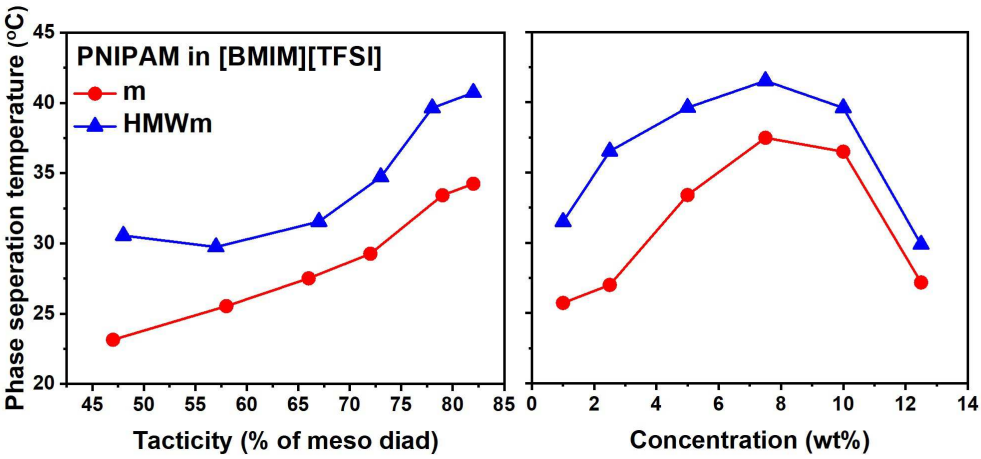
Received Date: 28 June 2018

Revised Date: 15 August 2018

Accepted Date: 29 August 2018

Please cite this article as: Biswas CS, Stadler FJ, Yan Z-C, Tacticity effect on the upper critical solution temperature behavior of Poly(*N*-isopropylacrylamide) in an imidazolium ionic liquid, *Polymer* (2018), doi: 10.1016/j.polymer.2018.08.073.

Graphical abstract:



Caption:

Left: The phase separation temperature as a function of tacticity for 5% PNIPAM in [BMIM][TFSI] solutions.

Right: The phase diagram for PNIPAM with 78~79% meso-diad content in [BMIM][TFSI] solutions.

Codes: *m* represents PNIPAMs with molecular weight of 34900~43600 g/mol, while *HMWm* represents PNIPAMs with molecular weight of 60200~85700 g/mol.