

Supplementary Information for:

Lower Critical Solution Temperature (LCST) Phase Separation of Glycol Ethers for Forward Osmotic Control

5

Daichi Nakayama[‡], Yeongbong Mok[‡], Minwoo Noh, Jeongseon Park, Sunyoung Kang and Yan Lee*

Department of Chemistry, College of Natural Sciences, Seoul National University, Gwanak-ro 1, Gwanak-gu, Seoul
10 151-747, Republic of Korea.

[‡]These two authors equally contributed to this work.

15

Table of contents:

Table S1 Physical characteristics of GE draw solutes.

20

Fig. S1 Molality-based phase diagrams of GE-water mixtures; (a) DEH/water, (b) DPP/water,
and (c) PB/water.

Fig. S2 Osmolality of NaCl_(aq) solution.

25

Table S1 Physical characteristics of GE draw solutes.

Draw solutes	MW (g/mol)	Density ^a (g/ml)	m.p. (°C)	b.p. (°C)	Viscosity ^b (mPa·s)
DEH	190.28	0.935	-40	260	5.77
DPP	176.25	0.926	-75	213	3.25
PB	132.20	0.875	-80	170	2.37

^aAt 25 °C. ^bViscosity was measured at 28.5 °C.

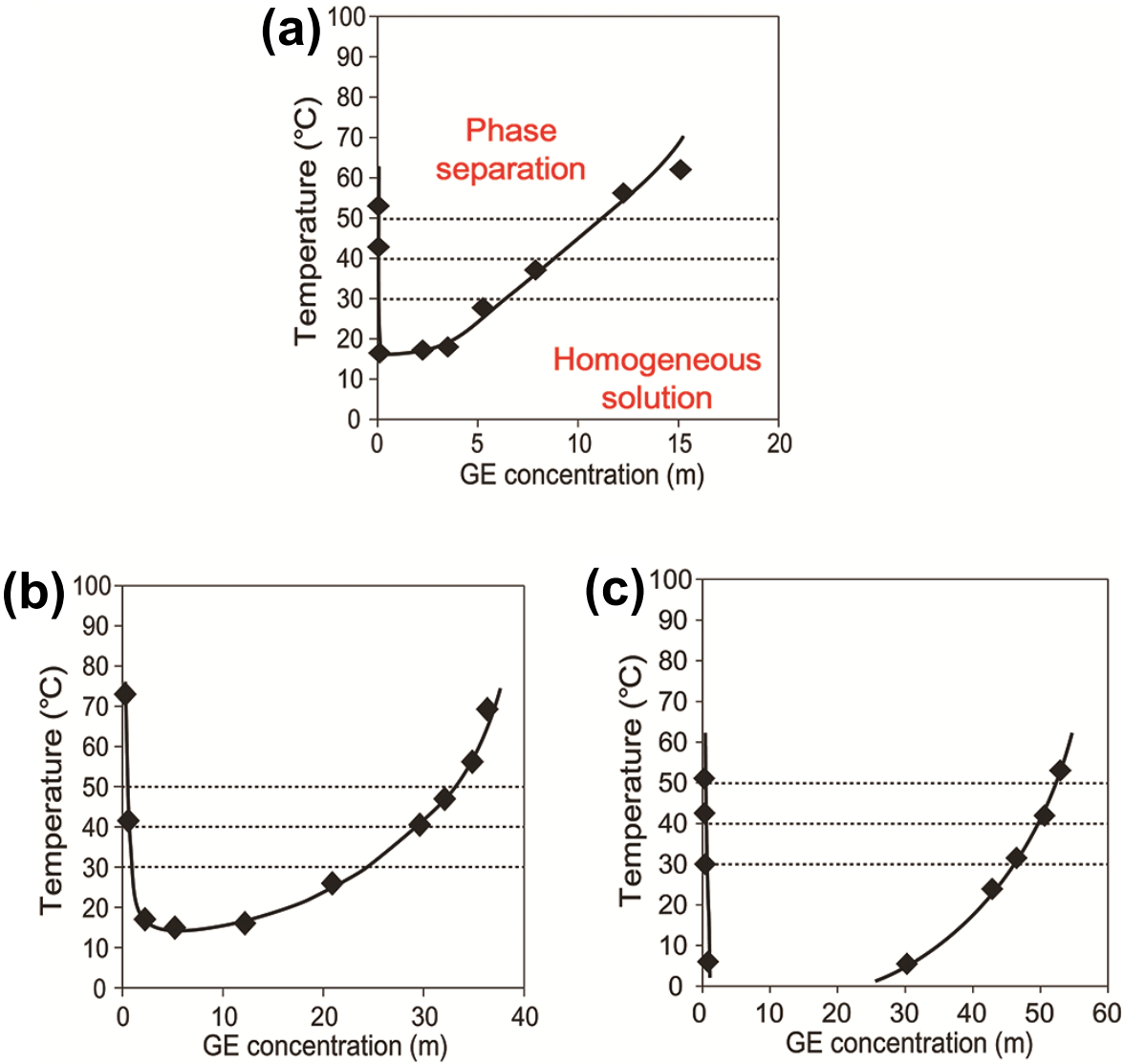


Fig. S1 Molality-based phase diagrams of GE-water mixtures; (a) DEH/water, (b) DPP/water, and (c) PB/water.

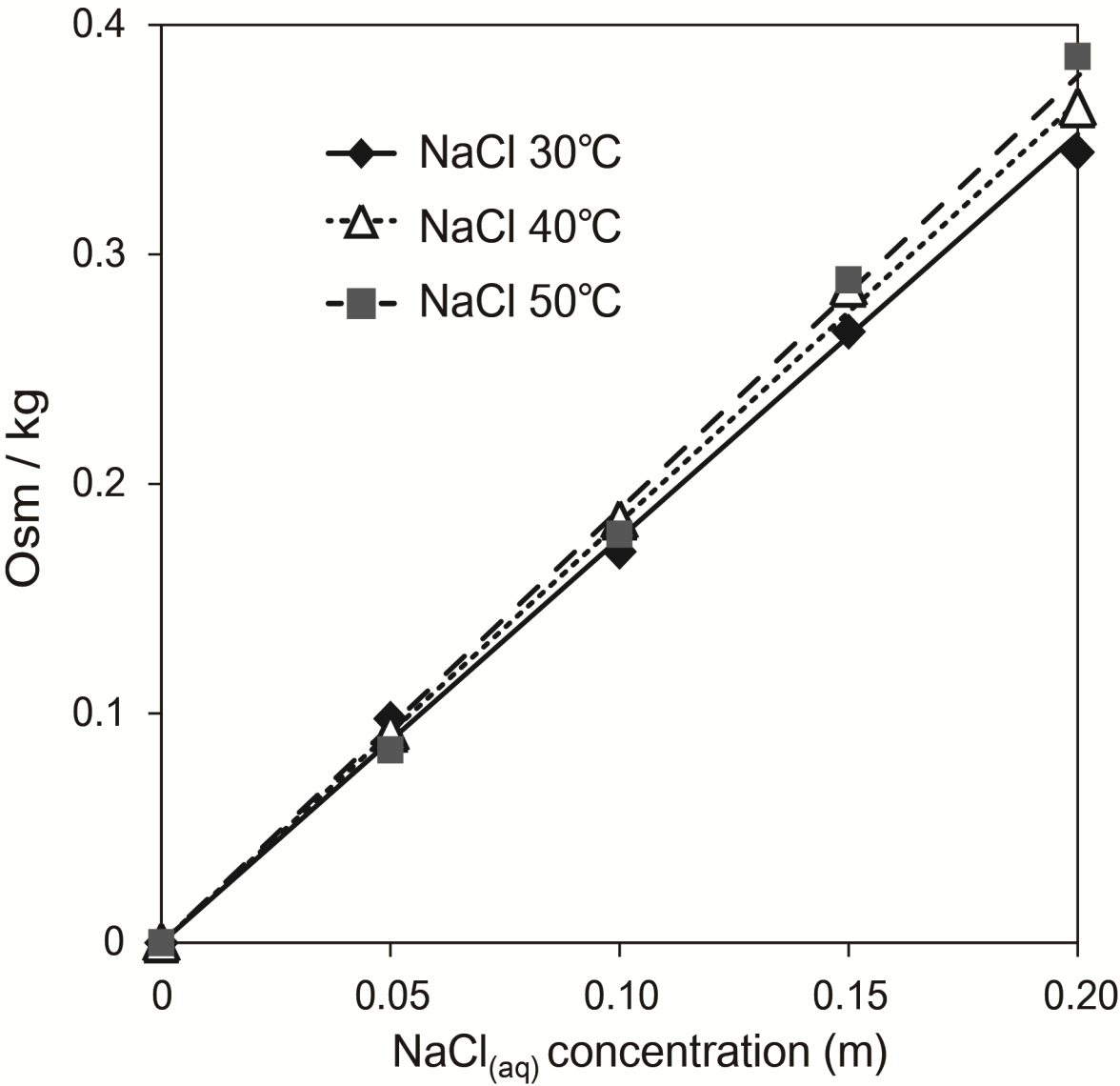


Fig. S2 Osmolality of NaCl_(aq) solution