

## Reply to Comments by del Carmen Grande and Marschoff on *J. Chem. Eng. Data* 2001, 46, 1436–1441

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Grande and Marschoff<sup>1</sup> have commented on the difference between the results obtained in the above paper and those of refs 2 and 3. For most of the results, the differences are within the combined experimental error. However, there are differences larger than the combined experimental error in the benzonitrile-rich region. It is possible that, for these mixtures, the kinetics of the equilibrium process is slow, as suggested in the Comment,<sup>1</sup> but there seems no reason that slow kinetics should be confined to this region. A careful determination of the binary system in this region ( $x_c = 0$ ) for the three disputed sets of results should clarify the discrepancy.

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### Literature Cited

- (1) Grande, M. C.; Marschoff, C. M. Comments on "Liquid–Liquid Equilibria for Mixtures of Water + an Alkanol + a Nitrile Compound at  $T = 298.15$  K" (Letcher, T. M.; Naicker, P. K. *J. Chem. Eng. Data* 2001, 46, 1436–1441). *J. Chem. Eng. Data* 2003, 48, 753–754.
- (2) Botto, G. J.; Agarás, H.; Marschoff, C. M. Liquid–Liquid Equilibrium Data for the System Water–Benzonitrile–Methanol. *J. Chem. Eng. Data* 1989, 34, 382–384.
- (3) Grande, M. C.; Fresco, J.; Marschoff, C. M. Liquid–Liquid Equilibrium Data for Water + Benzonitrile + Ethanol or 1-Propanol. *J. Chem. Eng. Data* 1995, 40, 1165–1167.

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