

Thermodynamics and Intermolecular Interactions of Nicotinamide in Neat and Binary Solutions: Experimental Measurements and COSMO-RS Concentration Dependent Reactions Investigations

Piotr Cysewski *, Maciej Przybyłek, Anna Kowalska and Natalia Tymorek

Department of Physical Chemistry, Pharmacy Faculty, Collegium Medicum of Bydgoszcz, Nicolaus Copernicus University in Toruń, Kurpińskiego 5, 85-950 Bydgoszcz, Poland; m.przybylek@cm.umk.pl (M.P.); 288310@stud.umk.pl (A.K.); n.tymorek@wp.pl (N.T.)

* Correspondence: Piotr.Cysewski@cm.umk.pl

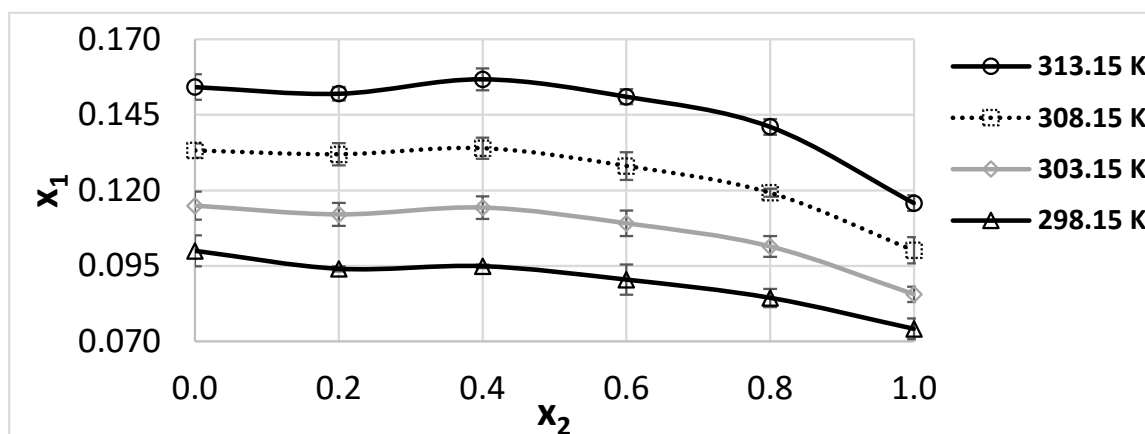


Figure S1. The solubility vs. temperature relationships of nicotinamide in methanol-water. The x_1 , x_2 symbols denote molar fraction solubility and molar fraction of organic component in binary solvent, respectively. The error bars denote standard deviation values ($n = 3$).

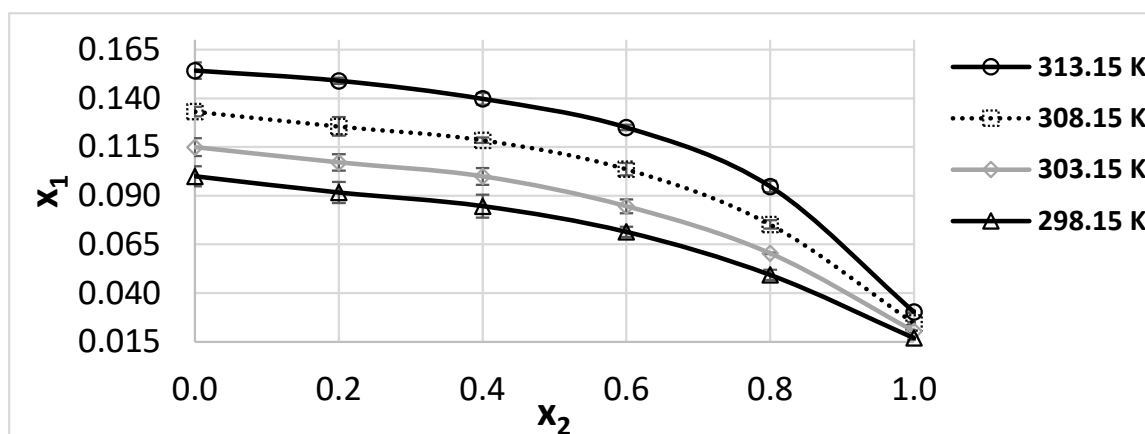


Figure S2. The solubility vs. temperature relationships of nicotinamide in 1,4-dioxane-water. The x_1 , x_2 symbols denote molar fraction solubility and molar fraction of organic component in binary solvent, respectively. The error bars denote standard deviation values ($n = 3$).

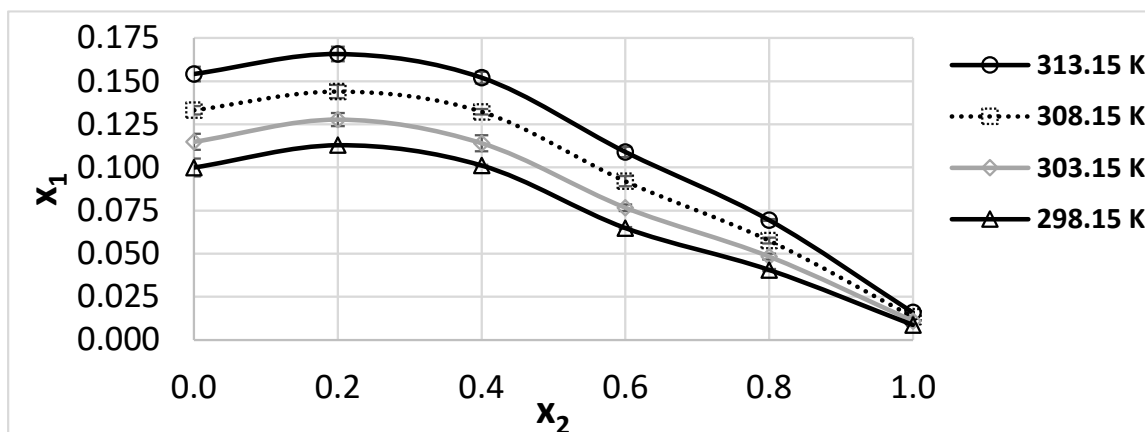


Figure S3. The solubility vs. temperature relationships of nicotinamide in acetonitrile-water. The x_1 , x_2 symbols denote molar fraction solubility and molar fraction of organic component in binary solvent, respectively. The error bars denote standard deviation values ($n = 3$).

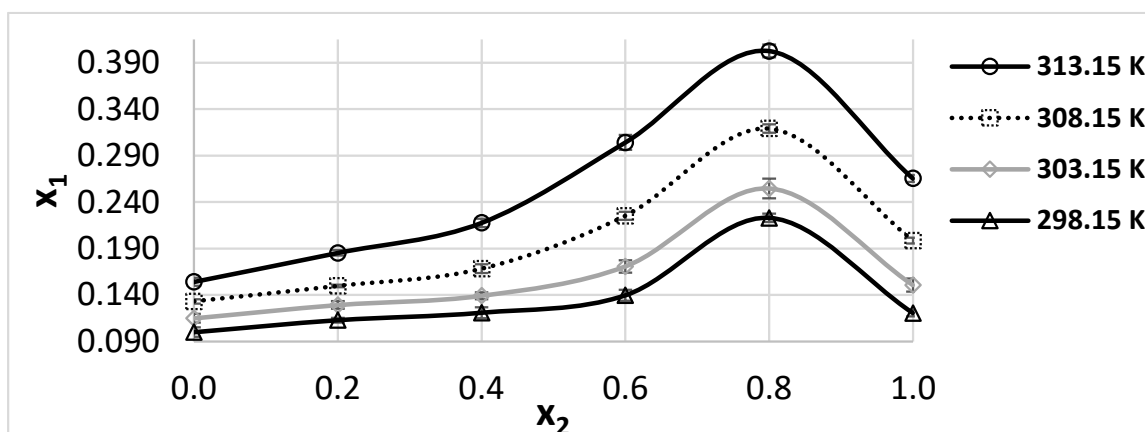


Figure S4. The solubility vs. temperature relationships of nicotinamide in DMSO-water. The x_1 , x_2 symbols denote molar fraction solubility and molar fraction of organic component in binary solvent, respectively. The error bars denote standard deviation values ($n = 3$).

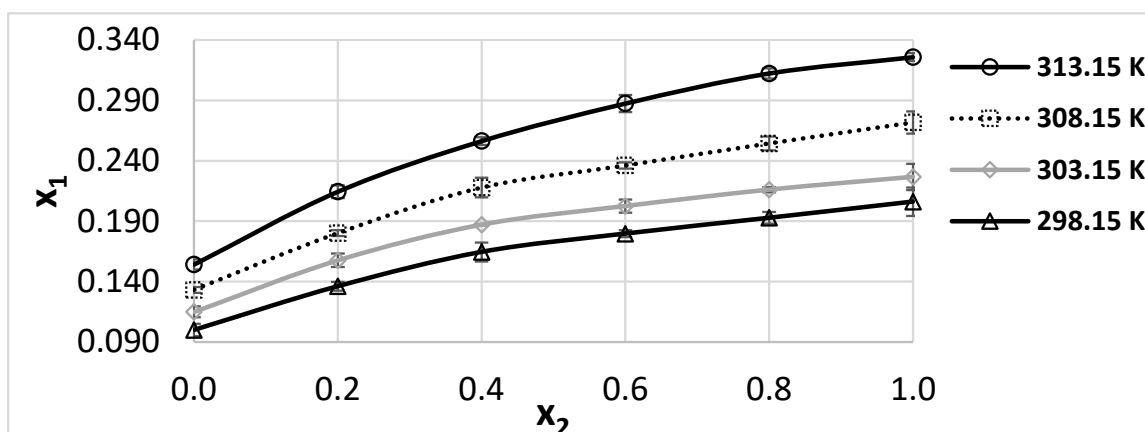


Figure S5. The solubility vs. temperature relationships of nicotinamide in DMF-water. The x_1 , x_2 symbols denote molar fraction solubility and molar fraction of organic component in binary solvent, respectively. The error bars denote standard deviation values ($n = 3$).