



Apparent Molar Volumes of Sodium Naproxen in Water at Several Concentrations and Temperatures

Andrés R. HOLGUÍN ¹, Daniel R. DELGADO ¹, Miller A. RUIDIAZ ¹,
Edgar F. VARGAS ² & Fleming MARTÍNEZ ^{1*}

¹ *Grupo de Investigaciones Farmacéutico-Fisicoquímicas, Departamento de Farmacia,
Facultad de Ciencias, Universidad Nacional de Colombia, A.A. 14490, Bogotá D.C., Colombia.*

² *Laboratorio de Termodinámica de Soluciones, Departamento de Química,
Facultad de Ciencias, Universidad de los Andes, Bogotá D.C., Colombia.*

SUMMARY. Densities of aqueous solutions of sodium naproxen have been measured as functions of concentration (from 0.0250 to 0.5000 mol kg⁻¹) and temperature (from 278.15 to 313.15 K). The apparent molar volumes, partial molar volumes at infinite dilution and partial molar expansibility were calculated. The dependence of these properties with temperature is also shown. The results are interpreted in terms of solute-solvent interactions.

KEY WORDS: Apparent molar volume, Molar expansibility, Sodium naproxen.

* Author to whom correspondence should be addressed. *E-mail:* fmartinezr@unal.edu.co