



Solubility of Lamotrigine in Propylene Glycol + Ethanol and Their Ternary Aqueous Mixtures

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SUMMARY. The solubility of lamotrigine in binary mixtures of propylene glycol (PG) + ethanol, and ternary mixtures of PG + ethanol + water at 298.2 K was reported. The measured solubility data was mathematically represented using the Jouyban-Acree model. The accuracies of the calculated solubilities were evaluated by computing mean percentage deviation MPDs (\pm SD); the obtained MPDs were 2.9 ± 3.4 % for binary and 10.4 ± 6.8 % for ternary solvent mixtures.

RESUMEN. Se brinda información sobre la solubilidad de lamotrigina en mezclas binarias de propilenglicol (PG) + etanol, y mezclas ternarias de PG + etanol + agua a 298,2 K. Los datos de solubilidad medidos se representan matemáticamente utilizando el modelo de Jouyban-Acree. La precisión de las solubilidades calculadas fue evaluada mediante el porcentaje de desviación de las medias (MPDs) \pm SD; las MPDs obtenidas fueron $2,9 \pm 3,4\%$ para la mezcla binaria y $10,4 \pm 6,8\%$ para mezclas de disolventes ternarios.

KEY WORDS: Cosolvency, Jouyban-Acree model, Lamotrigine, Solubility.

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