

The Journal of Chemical Thermodynamics

Volume 43, Issue 12, Pages 1775-2016 (December 2011)

Original Research Papers

Experimental analysis and modeling of CO₂ solubility in AMP (2-amino-2-methyl-1-propanol) at low CO₂ partial pressure using the models of Deshmukh–Mather and the artificial neural network

Pages 1775–1783

Hassan Pahlavanzadeh, Shiva Nourani, Mohammad Saber

Highlights

► The absorption of CO₂ into aqueous solution of AMP at low CO₂ partial pressure was experimentally and analytically investigated by two different mathematical models which are Deshmukh–Mather model and artificial neural network. ► In experimental section it was observed that the solubility of CO₂ in AMP increases with partial pressure and decreases with temperature and concentration of solvent. ► This study indicates that the neural modeling has a better prediction of experimental CO₂ loadings than Deshmukh–Mather model when is compared with experimental results in this work.

Phase equilibria study of systems composed of refined babassu oil, lauric acid, ethanol, and water at 303.2 K

Pages 1784–1790

Érika C. D'Anton Reipert, Christianne E.C. Rodrigues, Antonio J.A. Meirelles

Highlights

► Refining of vegetable oils. ► Deacidification of babassu oil by liquid–liquid extraction using ethanol as solvent. ► Distribution coefficient values of lauric acid and neutral oil were evaluated. ► The carbon chain length of the molecules influenced the solubility of the system.

Vapor pressure and enthalpy of vaporization of linear aliphatic alkanediamines

Pages 1791–1799

Vasiliy A. Pozdeev, Sergey P. Verevkin

Highlights

► We measured vapor pressure of diamines H₂N–(CH₂)_n–NH₂ with n = 3 to 12. ► Vaporization enthalpies at 298 K were derived. ► We examined consistency of new and available in the literature data. ► Enthalpies of vaporization show linear dependence on numbers n. ► Enthalpies of vaporization correlate linearly with Kovats indices.

Thermodynamics of non-ionic surfactant Triton X-100-cationic surfactants mixtures at the cloud point

Pages 1800–1803

Çiğdem Batıgöç, Halide Akbaş, Mesut Boz

Highlights

► Non-ionic surfactants are used as emulsifier and solubilize in such as textile, detergent and cosmetic. ► Non-ionic surfactants occur phase separation at temperature as named the cloud point in solution. ► Dimeric surfactants

Journal Of Chemical Thermodynamics

Trevor Letcher



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