Behavior of the Partial Molar quantities of Binary Mixtures near the Critical Azeotrope and its Relation with Microbiology

Nafissa Boutefnouchet[*,1]**, Salah Hamdi**[2] **and Azzedine Abbaci**[3]

1-Faculté des Sciences, Département de Biohimie, Université Badji Mokhtar, B.P.12, El-Hadjar, Annaba (23200), Algeria, E-mail: Boutefnaf@yahoo.fr
2-Institut d'Agronomie, Centre Universitaire, El-Tarf (36000), Algeria
3-Faculté des Sciences, Département de Chimie, Université Badji Mokhtar, B.P.12, El-Hadjar, Annaba (23200), Algeria.
Phone +213-38-87-67-65, Fax +213-38-87-67-65,

Abstract: In this work we investigate the critical line of binary azeotropic mixtures. We pinpoint the abnormal behavior of the critical density and show its influence properties per mole. At the present time, these azeotropic mixtures are being applied in biomedical area, such as pharmaceutical products purification. We attempt to use these characteristics on antibacterial agents, such as disinfectant.

Keywords: azeotropic mixtures; critical line; biomedical, antibacterial.