

## Thermophysical Properties of Protic Ionic Liquids

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In this work the heat capacity and the vapor pressures by Knudsen effusion as well as, the gaseous phase composition by means of quadrupole mass-spectra analyzer, was used to evaluate the complex equilibrium vapour liquid equilibrium of Protic Ionic Liquids as 1,5-Diazabicyclo[4.3.0]non-5-ene (DBN) and 1,8-Diazabicyclo[5.4.0]undec-7-ene (DBU) and a series of carboxylic acids ( Propionic, butanoic, isobutanoic acids). The obtained results will be compared, analyzed and discussed concerning the effect of different base/acid compositions on their cohesive energy and volatility and the composition speciation of the PILs with the base/acid ratio and pH.

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