## Accepted Manuscript

Thermodynamic study of molecular interaction-selectivity in separation processes based on limiting activity coefficients

Urszula Domańska, Monika Karpińska, Michal Wlazło

PII: S0021-9614(18)30083-1

DOI: https://doi.org/10.1016/j.jct.2018.02.014

Reference: YJCHT 5334

To appear in: J. Chem. Thermodynamics

Received Date: 23 November 2017 Revised Date: 8 February 2018 Accepted Date: 13 February 2018



Please cite this article as: U. Domańska, M. Karpińska, M. Wlazło, Thermodynamic study of molecular interaction-selectivity in separation processes based on limiting activity coefficients, *J. Chem. Thermodynamics* (2018), doi: https://doi.org/10.1016/j.jct.2018.02.014

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## **ACCEPTED MANUSCRIPT**

### J. Chem. Thermodyn. (Special Issue, T.M. Letcher)

Thermodynamic study of molecular interaction-selectivity in separation processes based on limiting activity coefficients

Urszula Domańska<sup>a,b</sup>\*, Monika Karpińska<sup>c</sup>, Michal Wlazło<sup>c</sup>

<sup>a</sup>Industrial Chemistry Research Institute, Rydygiera 8, 01-793 Warsaw, Poland.

<sup>b</sup> Thermodynamic Research Unit, School of Chemical Engineering, University of KwaZulu-Natal, Howard College Campus, King George V Avenue, Durban 4001, South Africa.

<sup>c</sup> Department of Physical Chemistry, Faculty of Chemistry, Warsaw University of Technology, Noakowskiego 3, 00-664 Warsaw, Poland

#### Keywords:

Ionic liquid, [EMMor][DCA]
Experimental limiting activity coefficients

Thermodynamics

The Abraham solvation parameter model

Separation of binary mixtures

\*Corresponding author at Industrial Chemistry Research Institute, Rydygiera 8, 01-793 Warsaw, Poland. Tel.:+48 22 568-2063; fax: +48 22 568-2522. *E-mail address*: ula@ch.pw.edu.pl (U. Domańska).

#### Download English Version:

# https://daneshyari.com/en/article/6659763

Download Persian Version:

https://daneshyari.com/article/6659763

<u>Daneshyari.com</u>