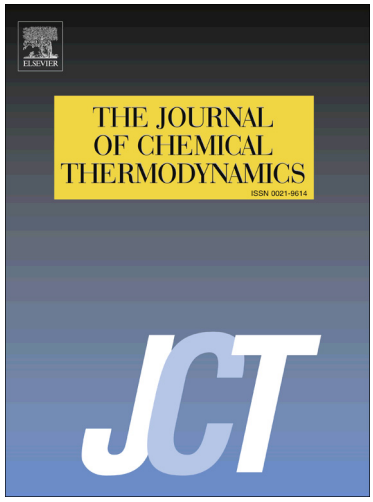

Thermodynamic study of molecular interaction-selectivity in separation processes based on limiting activity coefficients

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

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

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

Urszula Domańska[a,b]*, Monika Karpińska[c] , Michal Wlazło[c]

[a]*Industrial Chemistry Research Institute, Rydygiera 8, 01-793 Warsaw, Poland.*

[b] *Thermodynamic Research Unit, School of Chemical Engineering, University of KwaZulu-Natal, Howard College Campus, King George V Avenue, Durban 4001, South Africa.*

[c] *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).