### **Accepted Manuscript**

Oil desulfurization using deep eutectic solvents as sustainable and economical extractants via liquid-liquid extraction: Experimental and PC-SAFT predictions

Samah E.E. Warrag, Clarissa Pototzki, Nerea R. Rodriguez, Martin van Sint Annaland, Maaike C. Kroon, Christoph Held, Gabriele Sadowski, Cor J. Peters

FUID PHASE EQUILIBRIA AN INTERNATIONAL FUID PHASE EQUILIBRIA

PII: S0378-3812(18)30118-3

DOI: 10.1016/j.fluid.2018.03.018

Reference: FLUID 11791

To appear in: Fluid Phase Equilibria

Received Date: 6 December 2017
Revised Date: 12 March 2018
Accepted Date: 21 March 2018

Please cite this article as: S.E.E. Warrag, C. Pototzki, N.R. Rodriguez, M. van Sint Annaland, M.C. Kroon, C. Held, G. Sadowski, C.J. Peters, Oil desulfurization using deep eutectic solvents as sustainable and economical extractants via liquid-liquid extraction: Experimental and PC-SAFT predictions, *Fluid Phase Equilibria* (2018), doi: 10.1016/j.fluid.2018.03.018.

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**

# Oil Desulfurization Using Deep Eutectic Solvents as Sustainable and Economical Extractants via Liquid-Liquid Extraction: Experimental and PC-SAFT Predictions

Samah E.E Warrag<sup>a,b</sup>,

Clarissa Pototzki<sup>c</sup>,

Nerea R. Rodriguez<sup>d</sup>

Martin van Sint Annaland<sup>b</sup>,

Maaike C. Kroon<sup>a</sup>,

Christoph Held<sup>c,\*</sup>,

Gabriele Sadowski<sup>c</sup>

Cor J. Peters<sup>a,e</sup>

<sup>a</sup> Khalifa University of Science and Technology, Petroleum Institute, Chemical Engineering

Department, P.O. Box 2533, Abu Dhabi, United Arab Emirates

<sup>b</sup> Eindhoven University of Technology, Department of Chemical Engineering and Chemistry,
Process Intensification Group, P.O. Box 513, 5600 MB Eindhoven, The Netherlands

<sup>c</sup> Technische Universität Dortmund, Department of Biochemical and Chemical Engineering,
Laboratory of Thermodynamics, Emil-Figge-Str. 70, D-44227 Dortmund, Germany

<sup>d</sup>University of Leuven, Department of Chemistry, P.O. Box 2404 3000 Leuven, Belgium

<sup>e</sup>Colorado School of Mines, Chemical & Biological Engineering Department, Center for Hydrate Research, Golden, CO 80401, United States

Corresponding Author: Christoph Held

Email: christoph.held@tu-dortmund.de; Phone: +49231 755 2086

#### Download English Version:

## https://daneshyari.com/en/article/6619181

Download Persian Version:

https://daneshyari.com/article/6619181

Daneshyari.com