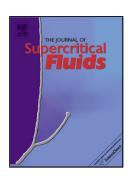
### Accepted Manuscript

Title: Concerning the determination and predictive correlation of diffusion coefficients in supercritical fluids and their mixtures

Author: Toshitaka Funazukuri



PII:	S0896-8446(17)30690-3
DOI:	https://doi.org/10.1016/j.supflu.2017.11.035
Reference:	SUPFLU 4125
To appear in:	J. of Supercritical Fluids
Received date:	29-9-2017
Revised date:	30-11-2017
Accepted date:	30-11-2017

Please cite this article as: Toshitaka Funazukuri, Concerning the determination and predictive correlation of diffusion coefficients in supercritical fluids and their mixtures, The Journal of Supercritical Fluids https://doi.org/10.1016/j.supflu.2017.11.035

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

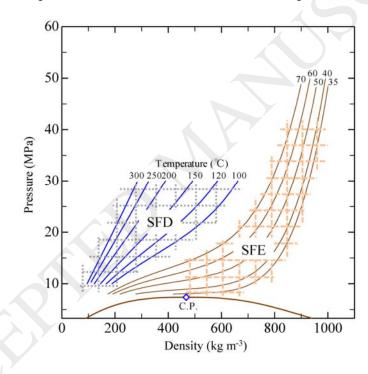
# Concerning the determination and predictive correlation of diffusion coefficients in supercritical fluids and their mixtures

Toshitaka Funazukuri

Department of Applied Chemistry Chuo University 1-13-27 Kasuga, Bunkyo-ku, Tokyo, 112-8551 Japan e-mail: tfunazo@kc.chuo-u.ac.jp

#### **Graphical abstract**

Condition ranges for supercritical fluid extraction (SFE) and supercritical fluid deposition (SFD)



#### Highlights

Diffusion data were mainly measured for supercritical (sc) fluid extraction New applications for material processing such as sc fluid deposition have been expanding Existing supercritical fluid diffusion data are insufficient for new applications The hydrodynamic equation can estimate diffusion in the liquid-like sc region A method of predicting diffusion coefficients in the gas-like sc region is required

#### Abstract

Although a large quantity of diffusion coefficient data exist for sub- and supercritical (sc) fluids,

Download English Version:

## https://daneshyari.com/en/article/6670396

Download Persian Version:

https://daneshyari.com/article/6670396

Daneshyari.com