

Accepted Manuscript

Title: Solubility and solution enthalpy of a cesium-selective calixarene in supercritical carbon dioxide

Authors: Adrien Dartiguelongue, Antoine Leybros, Agnès Grandjean



PII: S0896-8446(16)30434-X
DOI: <http://dx.doi.org/doi:10.1016/j.supflu.2017.01.017>
Reference: SUPFLU 3842

To appear in: *J. of Supercritical Fluids*

Received date: 9-11-2016
Revised date: 30-1-2017
Accepted date: 30-1-2017

Please cite this article as: Adrien Dartiguelongue, Antoine Leybros, Agnès Grandjean, Solubility and solution enthalpy of a cesium-selective calixarene in supercritical carbon dioxide, The Journal of Supercritical Fluids <http://dx.doi.org/10.1016/j.supflu.2017.01.017>

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.

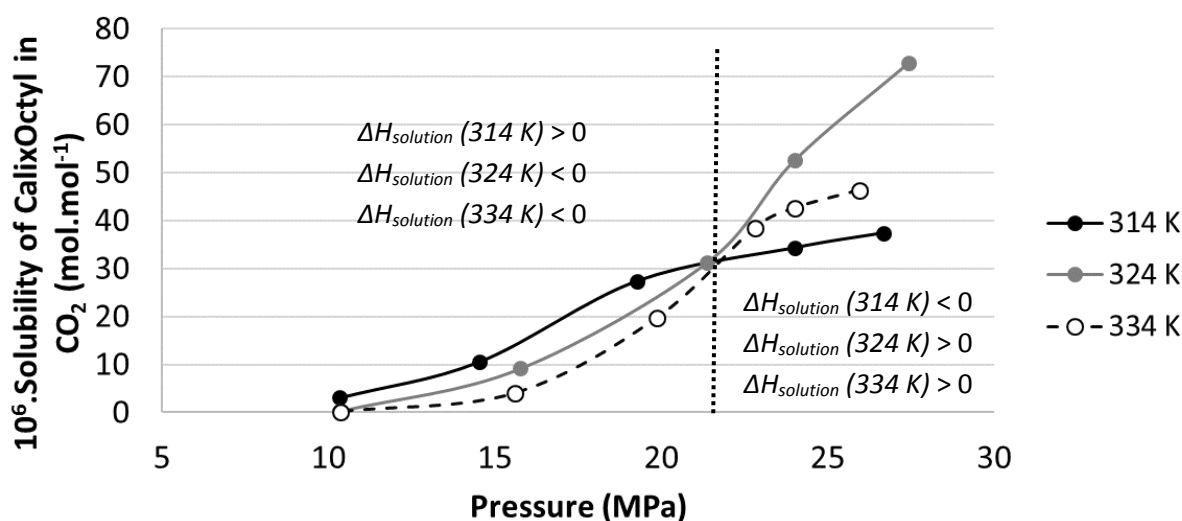
Solubility and solution enthalpy of a cesium-selective calixarene in supercritical carbon dioxide

Adrien Dartiguelongue, Antoine Leybros* and Agnès Grandjean

CEA, DEN, DTCD, SPDE, Laboratoire des Procédés Supercritiques et de Décontamination,
B.P. 17171, F-30207 Bagnols-sur-Cèze, France

* antoine.leybros@cea.fr, +33466791641

Graphical abstract



Highlights

- The solubility of a cesium-selective calixarene in supercritical CO₂ was measured.
- A dynamic method was used from 10 to 27 MPa at 314, 324 and 334 K.
- An experimental setup with differential scanning calorimetry was also developed.
- Solution enthalpy of CalixOctyl in supercritical CO₂ also reported.

Download English Version:

<https://daneshyari.com/en/article/4909771>

Download Persian Version:

<https://daneshyari.com/article/4909771>

[Daneshyari.com](https://daneshyari.com)