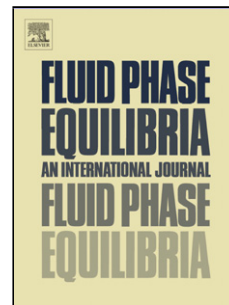


## Accepted Manuscript

Title: Polyethylene glycol 8000 + citrate salts aqueous two-phase systems: relative hydrophobicity of the equilibrium phases

Author: Sara C. Silvério Jesús Gracia José A. Teixeira  
Eugénia A. Macedo



PII: S0378-3812(15)30042-X  
DOI: <http://dx.doi.org/doi:10.1016/j.fluid.2015.07.027>  
Reference: FLUID 10679

To appear in: *Fluid Phase Equilibria*

Received date: 3-5-2015  
Revised date: 12-7-2015  
Accepted date: 13-7-2015

Please cite this article as: S.C. Silvério, J. Gracia, J.A. Teixeira, E.A. Macedo, Polyethylene glycol 8000 + citrate salts aqueous two-phase systems: relative hydrophobicity of the equilibrium phases, *Fluid Phase Equilibria* (2015), <http://dx.doi.org/10.1016/j.fluid.2015.07.027>

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**Highlights**

PEG8000-K<sub>3</sub>C<sub>6</sub>H<sub>5</sub>O<sub>7</sub> ATPSs present the most negative  $\Delta G^*(CH_2)$  values

ATPSs with K<sub>3</sub>C<sub>6</sub>H<sub>5</sub>O<sub>7</sub> have larger relative hydrophobicity than ATPSs with Na<sub>3</sub>C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>

PEG8000-K<sub>3</sub>C<sub>6</sub>H<sub>5</sub>O<sub>7</sub> ATPSs have lower cross-contamination between the equilibrium phases

PEG phase has higher affinity to hydrophobic hydration interactions than salt phase

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