عنوان مقاله:

Optimization of Binary Interaction Coefficients of Wilson Equation in NMP-1, 3 Butadiene System

محل انتشار:

پنجمین کنگره بین المللی مهندسی شیمی (سال: 1386)

تعداد صفحات اصل مقاله: 7

نویسندگان:

Maesoomeh POURASGHAR - *Student; Chemical Engineering Dept.; University College of Engineering-University of Tehran- I.R.Iran*

Mojtaba SHARIATY-Niassar - *Professor of Chemical Engineering; Chemical Engineering Dept.; University College of Engineering-University of Tehran- I.R.Iran*

Nafiseh FARHADIAN - *PhD. Student, Chemical Engineering Dept.; University College of Engineering-University of Tehran- I.R.Iran*

خلاصه مقاله:

The aim of this study is to calculate and optimize the binary interactions for Wilson activity equation with experimental data (P-T-X).The binary interaction coefficient for this system is not available in the literature. So the calculation of these interactions seems to be useful. The vapor phase is assumed as an ideal gas. The binary interaction data for P-X data were experimentally found at each temperature. Then the optimization of such interactions was done basing on the Gibbs free energy methods. The results were compared to those of the experimental data. Moreover; they show that the optimization could be used for such system.

کلمات کلیدی:

Binary interaction coefficient, Optimization, Gibbs free energy, Wilson Equation

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/45908