

Accepted Manuscript

Accurate Modeling of Vapor-Liquid Equilibria of Binary Mixtures of Refrigerants Using Intelligent Models

Adel Najafi-Marghmaleki , Ali Barati-Harooni ,
Mohammad Reza Khosravi-Nikou

PII: S0140-7007(18)30185-3
DOI: [10.1016/j.ijrefrig.2018.05.027](https://doi.org/10.1016/j.ijrefrig.2018.05.027)
Reference: IJIR 3995



To appear in: *International Journal of Refrigeration*

Received date: 21 January 2018
Revised date: 5 April 2018
Accepted date: 21 May 2018

Please cite this article as: Adel Najafi-Marghmaleki , Ali Barati-Harooni , Mohammad Reza Khosravi-Nikou , Accurate Modeling of Vapor-Liquid Equilibria of Binary Mixtures of Refrigerants Using Intelligent Models, *International Journal of Refrigeration* (2018), doi: [10.1016/j.ijrefrig.2018.05.027](https://doi.org/10.1016/j.ijrefrig.2018.05.027)

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.

Highlights

- Four models were developed for prediction of phase behavior of binary refrigerant systems.
- The four computer based models are RBF-NN, MLP-NN, CSA-LSSVM and Hybrid-ANFIS.
- The performance of the developed models is evaluated by using statistical quality measure approaches.
- The outcomes of the developed models are compared with PR-EoS and SRK-EoS.
- The performance of the developed models is better than the studied thermodynamic models.

Download English Version:

<https://daneshyari.com/en/article/7175181>

Download Persian Version:

<https://daneshyari.com/article/7175181>

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