

عنوان مقاله:

The NM Liquid Density Correlation based on Different Temperature Dependent Terms of Cubic Equations of State

محل انتشار:

نهمین کنگره ملی مهندسی شیمی ایران (سال: 1383)

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نویسندگان:

Javanmardi - Shiraz University of Technology, Shiraz, Iran

Moshfeghian - Petroleum Research and Studies Center, Kuwait Institute for Scientific Research, Kuwait

خلاصه مقاله:

The Nasrifar-Moshfeghian (NM) liquid density correlation, in conjugation with the temperature-dependent terms of some cubic equations of state, has been used to predict the saturated liquid densities of pure components. The original temperature-dependent term is the Mathias and Copeman. In this work, the temperature dependence of the attraction terms of SRK, PR, UM, and NM equations of state have been studied. The parameters of the NM correlation, as well as the characteristic parameters of each component, d , have been obtained. For this purpose, the saturated liquid densities of 80 components consisting 2639 data points of paraffins, cyclo-paraffins, olefins, diolefins, cyclic olefins, aromatics, ethers, liquefied inorganic gases, and alcohols have been studied.

کلمات کلیدی:

Liquid density, correlation, Equation of state, Temperature-dependent term

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