

Calculation and prediction of critical temperatures of binary systems of n -alkanes

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Abstract

A description of the method of calculating the critical temperature for the compositions of the system $C_3H_8-C_9H_{20}$ based on analytical description and graphical plotting isoconcentrational dependencies $T_c = f(n)$ number of $C_3H_8-C_nH_{2n+2}$ ($n = 4 \dots 10$) is presented.

We construct graphical dependences in different coordinate systems. The obtained dependences allow to determine the missing values T_c in the systems of n -alkanes.