

PECULIARITIES
OF THE LIQUID–GAS COEXISTENCE
CURVE AND THE δ_T -CORRECTION
NEAR THE CRITICAL POINT

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S u m m a r y

The results of our researches dealing with the peculiarities in the behavior of the liquid–gas coexistence curve on the diagram near to the critical point, which were carried out in the framework of the scaling theory with the use of the Clapeyron–Clausius equation, are reported. Making allowance for the asymmetry of the liquid–gas coexistence curve in the framework of the algebra of fluctuating variables enabled us to demonstrate that the derivative $\left(\frac{dp}{dT}\right)_{cc}$ is finite at the critical point and to obtain a corresponding expression in terms of the critical parameters of the system. The theoretical results have been compared with experimental data for CO₂ and C₂H₆. The critical exponent for the temperature dependence of the Tolman δ_T -correction has been calculated.