

A COEXISTENCE CURVE EQUATION
FOR REFRIGERANT F-113 WITHIN THE
VICINITY OF THE CRITICAL POINT

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S u m m a r y

The experimental data on the dependence of the density on temperature have been presented for refrigerant F-113 along the coexistence curve within the wide temperature range including the close vicinity of the critical temperature. The extended equation of state for freon-113 along this direction has been proposed on the base of the van der Waals model of a fluctuation gas. Parameters of the equation is determined by the interaction of molecules inside density fluctuations at the distances $r < R_c$ and by the interaction between fluctuations at the distances $r > R_c$ (R_c is the correlation radius of the system).