

Phase equilibria in condensed systems with cyclododecane and *n*-alkanes

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Abstract

By low-temperature differential thermal analysis using a differential scanning calorimeter of heat flow the systems of *n*-decane–*n*-octadecane–cyclododecane, *n*-decane–cyclododecane, *n*-octadecane–cyclododecane have been investigated. All of the studied systems belong to the eutectic type. The eutectic composition alloys contain 10.0 % wt in the system *n*-decane–*n*-octadecane–cyclododecane; eutectic composition alloy contains 84.5 % wt. *n*-C₁₀H₂₂; 5.5 % wt. *n*-C₁₈H₃₈; 10 % wt. C₁₂H₂₄ and has the melting point of 34.9 °C.