

**Excess Molar Volumes for Three and Four Component Mixtures Simulating the Binary Mixture
(Cyclohexane+ Hexadecane)**

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Excess molar volumes of mixtures of cyclohexane and pseudocyclohexane (an equimolar mixture of cyclopentane + cycloheptane) with hexadecane and various pseudoheptadecanes (equimolar mixtures of tetradecane + octadecane, or decane + docosane, or octane + tetracosane) have been measured at 313.15 K. The results for the multicomponent mixtures are compared with those for the binary mixtures and show that n-alkanes obey an extended principle of congruence while mixtures with cycloalkanes do not obey the extended principle.