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Study of retention of some adamantane derivatives on hypercrosslinked polystyrene from water-acetonitrile eluent

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Abstract

The chromatographic behavior of adamantane derivatives was investigated. The retention factor (k) and the distribution constant (K_x) were calculated. The thermodynamic characteristics, such as change of the standard differential molar Gibbs energy of adsorption (ΔG°), the standard molar enthalpy changes (ΔH°), the entropy term (A) and standard molar entropy changes (ΔS°) at the transition of sorbate from the volume solution in the surface layer were calculated.