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Kinetics of neptunium(V) conversion in strong nitric acid solutions containing potassium phosphotungstate, K₁₀P₂W₁₇O₆₁

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Behavior of Np(V) in strong nitric acid solutions with different strength (1,0 ÷ 3,0) mol·l-1 and KPW (1 ÷ 5)·10-3 mol·l-1, containing potassium phosphotungstate, K10P2W17O61 (KPW) is examined by spectrophotometric method .
It is established that Np (V) final conversion products under studied experimental conditions are Np (IV) and Np (VI), and the process is going in accordance with a first-order rate law in regard to neptunium(V) concentration.

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