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Thermodynamic analysis of redox processes in combined activating solution based on palladium(II) and tin(II)

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Abstract

A thermodynamic analysis of redox reactions occurring in the combined activating solution based on palladium(II) and tin(II). Values of standard Gibbs energies and standard EMF of the main and adverse redox reactions, equilibrium constants of reactions were calculated. Based on these data the most likely redox reactions were determined in the activating solutions. The occurrence of adverse reactions leaded to lower stability and action time of the activating solution.