

Palladium

Reaction	Perrin et al., 1969	Hummel et al., 2002	Kitamura and Yui, 2010	Brown and Ekberg, 2016
$\text{Pd}^{2+} + \text{H}_2\text{O} \rightleftharpoons \text{PdOH}^+ + \text{H}^+$	-0.96		-0.65 ± 0.64	-1.16 ± 0.30
$\text{Pd}^{2+} + 2 \text{H}_2\text{O} \rightleftharpoons \text{Pd}(\text{OH})_2 + 2 \text{H}^+$	-2.6	-4 ± 1	-3.11 ± 0.63	-3.07 ± 0.16
$\text{Pd}^{2+} + 3 \text{H}_2\text{O} \rightleftharpoons \text{Pd}(\text{OH})_3^- + 3 \text{H}^+$		-15.5 ± 1	-14.20 ± 0.63	
$\text{Pd}(\text{OH})_2(\text{am}) + 2 \text{H}^+ \rightleftharpoons \text{Pd}^{2+} + 2 \text{H}_2\text{O}$		-3.3 ± 1		-3.4 ± 0.2
$\text{Pd}(\text{s}) + 2 \text{OH}^- \rightleftharpoons \text{Pd}(\text{OH})_2 + 2 \text{e}^-$			-4.69 ± 0.92	
$\text{Pd}(\text{s}) \rightleftharpoons \text{Pd}^{2+} + 2 \text{e}^-$			-29.57 ± 1.12	

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W. Hummel, U. Berner, E. Curti, F.J. Pearson, T. Thoenen, Technical report 02-16 Nagra / PSI Chemical Thermodynamic Data Base 01/01, 2002, pp. 244–245.

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D.D. Perrin, International Union of Pure and Applied Chemistry. Commission on Electroanalytical Chemistry, *Dissociation constants of inorganic acids and bases in aqueous solutions*. Butterworths, 1969, pp. 186.