
Equilibrium constants for hydrolysis and associated equilibria in critical compilations

Cobalt(III)

Equilibrium reaction	IgK at infinite dilution and T = 298 K
	Brown and Ekberg, 2016
$\text{Co}^{3+} + \text{H}_2\text{O} \rightleftharpoons \text{CoOH}^{2+} + \text{H}^+$	-1.07 ± 0.11

P.L. Brown and C. Ekberg, Hydrolysis of Metal Ions. Wiley, 2016, pp. 628–632.

Distribution diagrams

These diagrams have been computed at two Co(III) concentrations (1 mM = 1×10^{-3} mol L⁻¹ and 1 µM = 1×10^{-6} mol L⁻¹) with the ‘best’ equilibrium constant above. Calculations assume $T = 298$ K for the limiting case of zero ionic strength (*i.e.*, even neglecting plotted ions).

