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Equilibrium constants for hydrolysis and associated equilibria in critical compilations

Tungsten

Equilibrium reactions	lg*K* at infinite dilution and *T* = 298 K
	NIST46
$WO_4^{2-} + H^+ \rightleftharpoons HWO_4^-$	3.6
$WO_4^{2-} + 2\ H^+ \rightleftharpoons H_2WO_4$	5.8
$6\ WO_4^{2-} + 7\ H^+ \rightleftharpoons HW_6O_{21}^{5-} + 3\ H_2O$	63.83

NIST46, NIST Critically Selected Stability Constants of Metal Complexes: Version 8.0. Available at: www.nist.gov/srd/nist46.

Distribution diagrams

These diagrams have been computed at two W concentrations (1 mM = $1x10^{-3}$ mol L^{-1} and 1 µM = $1x10^{-6}$ mol L^{-1}) with the 'best' equilibrium constants above. Calculations assume T = 298 K for the limiting case of zero ionic strength (*i.e.*, even neglecting plotted ions).