

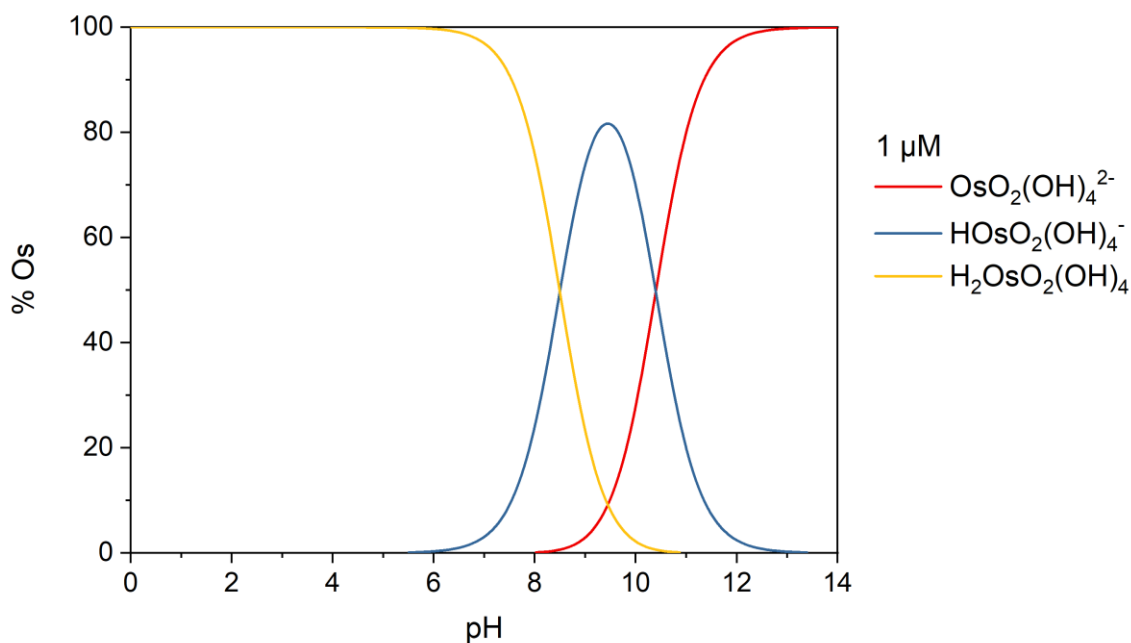
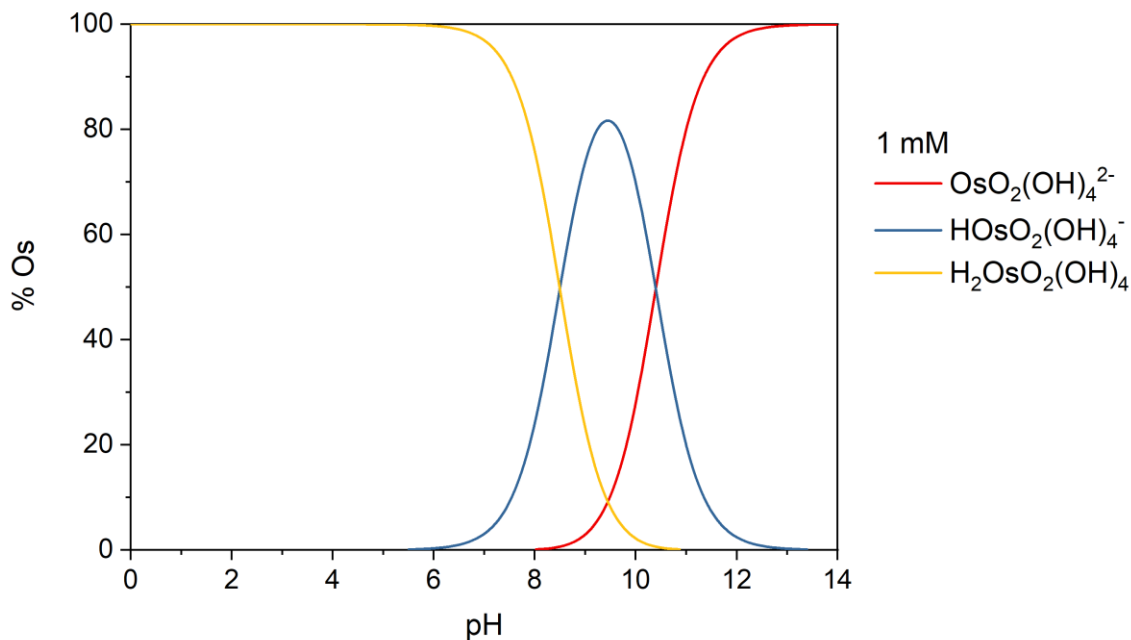
## Osmium(VI)

Equilibrium reactions	lgK at $I = 0.1$ M and $T = 298$ K
	Galbács et al., 1983
$\text{OsO}_2(\text{OH})_4^{2-} + \text{H}^+ \rightleftharpoons \text{HOsO}_2(\text{OH})_4^-$	10.4
$\text{HOsO}_2(\text{OH})_4^- + \text{H}^+ \rightleftharpoons \text{H}_2\text{OsO}_2(\text{OH})_4$	8.5

Z.M. Galbács, Á. Zsednai and L.J. Csányi, The acidic behaviour of osmium(VIII) and osmium(VI). *Transition Met. Chem.* 8, 328–332 (1983). doi:10.1007/BF00618563

# Distribution diagrams

These diagrams have been computed at two Os(VI) concentrations (1 mM =  $1 \times 10^{-3}$  mol L<sup>-1</sup> and 1  $\mu$ M =  $1 \times 10^{-6}$  mol L<sup>-1</sup>) with the equilibrium constants above. Calculations assume  $T = 298$  K for the limiting case of zero ionic strength (*i.e.*, even neglecting plotted ions).



## Osmium(VIII)

Equilibrium reactions	lgK at $I = 0.1$ M and $T = 298$ K	lgK at $I = 2.5$ M and $T = 298$ K
	Galbács et al., 1983	Galbács et al., 1983
$\text{OsO}_2(\text{OH})_3(\text{O}^-)\text{aq} + \text{H}^+ \rightleftharpoons \text{OsO}_2(\text{OH})_4\text{aq}$	12.2	
$\text{OsO}_2(\text{OH})_2(\text{O}^-)_2\text{aq} + \text{H}^+ \rightleftharpoons \text{OsO}_2(\text{OH})_3(\text{O}^-)\text{aq}$		14.4

Z.M. Galbács, Á. Zsednai and L.J. Csányi, The acidic behaviour of osmium(VIII) and osmium(VI). *Transition Met. Chem.* 8, 328–332 (1983). doi:10.1007/BF00618563