

## Ytterbium

Reaction	Baes and Mesmer, 1976	Brown and Ekberg, 2016
$\text{Yb}^{3+} + \text{H}_2\text{O} \rightleftharpoons \text{YbOH}^{2+} + \text{H}^+$	$\sim -7.7$	$-7.24 \pm 0.20$
$\text{Yb}(\text{OH})_3(\text{s}) + 3 \text{H}^+ \rightleftharpoons \text{Yb}^{3+} + 3 \text{H}_2\text{O}$	$\sim 14.7$	$15.34 \pm 0.20$
$\text{Yb}(\text{OH})_3(\text{c}) + \text{OH}^- \rightleftharpoons \text{Yb}(\text{OH})_4^-$	$-4.0 \pm 0.2$	
$\text{Yb}(\text{OH})_3(\text{c}) \rightleftharpoons \text{Yb}(\text{OH})_3(\text{aq})$	$\sim -9.4$	

C.F. Baes and R.E. Mesmer, *The Hydrolysis of Cations*. Wiley, New York, 1976.

P.L. Brown and C. Ekberg, *Hydrolysis of Metal Ions*. Wiley, 2016, pp. 135-145.