

## Erbium

Reaction	Baes and Mesmer, 1976	Brown and Ekberg, 2016
$\text{Er}^{3+} + \text{H}_2\text{O} \rightleftharpoons \text{ErOH}^{2+} + \text{H}^+$	$\sim -7.9$	$-7.52 \pm 0.20$
$2 \text{Er}^{3+} + 2 \text{H}_2\text{O} \rightleftharpoons \text{Er}_2(\text{OH})_2^{4+} + 2\text{H}^+$		$-13.66 \pm ?$
$\text{Er}(\text{OH})_3(\text{s}) + 3 \text{H}^+ \rightleftharpoons \text{Er}^{3+} + 3 \text{H}_2\text{O}$	$\sim 15.0$	$15.78 \pm 0.30$
$\text{Er}(\text{OH})_3(\text{c}) + \text{OH}^- \rightleftharpoons \text{Er}(\text{OH})_4^-$	$-3.6 \pm 0.5$	
$\text{Er}(\text{OH})_3(\text{c}) \rightleftharpoons \text{Er}(\text{OH})_3(\text{aq})$	$\sim -9.2$	

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.