

# Thulium

| Reaction   | Baes and Mesmer, 1976 | Brown and Ekberg, 2016 |
|--|-----------------------|------------------------|
| $\text{Tm}^{3+} + \text{H}_2\text{O} \rightleftharpoons \text{TmOH}^{2+} + \text{H}^+$                     | $\sim -7.7$           | $-7.39 \pm 0.20$       |
| $\text{Tm}(\text{OH})_3(\text{s}) + 3 \text{H}^+ \rightleftharpoons \text{Tm}^{3+} + 3 \text{H}_2\text{O}$ | $\sim 15.0$           | $15.56 \pm ?$          |

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.