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## Equilibrium constants for hydrolysis and associated equilibria in critical compilations

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### Berkelium(III)

Equilibrium reaction	lgK at infinite dilution and $T = 298\text{ K}$
	Brown and Ekberg, 2016
$\text{Bk}^{3+} + 3\text{H}_2\text{O} \rightleftharpoons \text{Bk}(\text{OH})_3(\text{s}) + 3\text{H}^+$	$-13.5 \pm 1.0$

P.L. Brown and C. Ekberg, Hydrolysis of Metal Ions. Wiley, 2016, pp. 419–422.

# Distribution diagrams

These diagrams have been computed at two Bk(III) concentrations ( $1 \text{ mM} = 1 \times 10^{-3} \text{ mol L}^{-1}$  and  $1 \text{ }\mu\text{M} = 1 \times 10^{-6} \text{ mol L}^{-1}$ ) with the 'best' equilibrium constant above. Calculations assume  $T = 298 \text{ K}$  for the limiting case of zero ionic strength (*i.e.*, even neglecting plotted ions).

