Answer on Question #64916 – Chemistry – General Chemistry

What is the molarity of 555 L of a Ba(HO)₂ solution if the pH is 10.20?

Solution.

pOH = 14 - pH = 14 - 10.20 = 3.80pOH = $-log[OH^-]$ [OH^-] = $0.000158489 \text{ M OH}^-$ Ba(OH)₂ = $(1mole\ Ba(OH)_2\ /\ 2mole\ OH)$ [Ba(OH)₂] = $0.000158489 \times \frac{1}{2} = 7.92 \times 10^{-5} \text{ M}$

Answer: $[Ba(OH)_2] = 7.92 \times 10^{-5} M$

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