Answer on Question #79620, Chemistry/ General Chemistry

A solution has $[H3O+] = 3.2 \times 10 - 5$ M . Use the ion product constant of water Kw = [H3O+][OH-]

to find the [OH-] of the solution.

Express your answer to two significant figures.

View Available Hint(s)

[OH-] = nothing M

Solution

$$K_w = [H_3 O^+][OH^-]$$

$$K_w = 1 \times 10^{-14}$$

$$[OH^{-}] = \frac{K_w}{[H_3O^{+}]}$$

$$[OH^-] = \frac{1 \times 10^{-14}}{3.2 \times 10^{-5}} = 3.1 \times 10^{-10}$$

Answer: 3.1×10^{-10}

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