Answer on Question \#83589-Chemistry - General Chemistry

## Question:

 M HNO3

## Solution:

$[\mathrm{H}+]=2.5 * 10-4 \mathrm{M}$;
$\mathrm{HOCl}=\mathrm{H}++\mathrm{OCl}-;$
$\mathrm{Ka}=[\mathrm{H}+]^{*}[\mathrm{OCl}-] /[\mathrm{HOCl}] ;$
$[\mathrm{H}+]=[\mathrm{OCl}-]=2.5^{*} 10-4 \mathrm{M}$;
$C(\mathrm{HOCl})=[\mathrm{H}+]^{*}[\mathrm{OCl}-]^{\prime} / \mathrm{Ka}=\left(2.5^{*} 10-4\right)^{\wedge} 2 /\left(3.5^{*} 10^{\wedge}-8\right)=1.79 \mathrm{M}$.
Answer: 1.79 M.

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