

Sample pH problem

What is the pH of 3.5×10^{-3} M HCl?
($K_a > 1$)

Will 7.5×10^{-4} M HCl have a
higher or lower pH?

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$$\text{pH} = -\log_{10}(3.5 \times 10^{-3}) = 2.46$$

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higher or lower pH?

higher