

K_b & the pH of Weak Bases

Example One

What is the pH of a 0.10 M solution of ClO^- ?

The base dissociation constant for hypochlorite is $K_b = 2.9 \times 10^{-7}$

Example Two

What is the K_b for a 1.0 M weak base whose pH is 11.60?

Example Three

Ethylamine is a weak base whose K_b value is 6.4×10^{-4} .
What is the pH of a 1.0 M solution of ethylamine?