Answer on Question #80137 - Chemistry - Physical Chemistry
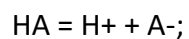
Question:

Calculate the [h+] of a solution containing 0.01m chcl2cooh and 0.002m chclcoona.ka for ch2clcooh=136*10^-5

Solution:

HA = H+ + A-;

[H+] = sqrt(Ka*C) = (136*10^-5*0.01)^1/2 = (136*10^-7)^1/2 = 0.0037 M.

Answer: 0.0037 M.