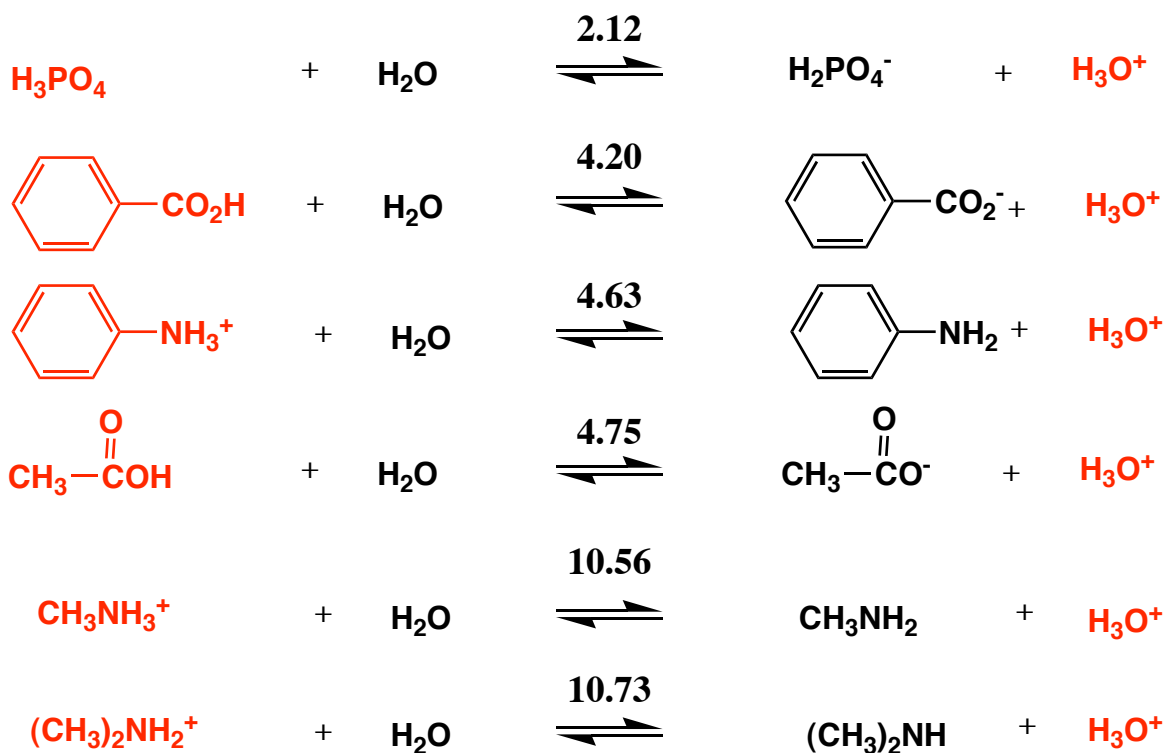


## $K_a$ Reactions



## $K_b$ Reactions

