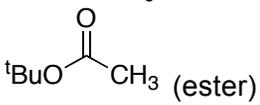
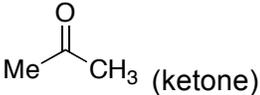
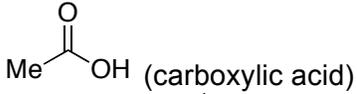


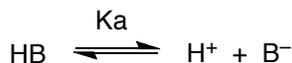
MUST KNOW pKa TABLE

(every organic chemist should know these)

compound	pKa (water)	pKa (DMSO)
tBu-H	53	
Me-H	48	56
Ph-H	43	
PhCH ₃	41	43
H ₂	~36	
iPr ₂ N-H		36 (THF)
NH ₃	38	41
 (ester)	24.3	30.3
 (ketone)	~20	26.5
iPrOH	16.5	27.9
H ₂ O	15.7	32
Et ₃ N-H ⁺	10.8	9.0
 (carboxylic acid)	4.8	12.3
H ₃ O ⁺	-1.7	
HCl	-8.0	1.8

Recall:

$$\text{pKa} = -\log (\text{Ka})$$



the smaller the number, the more acidic

also pKa' is the acidity of the conjugate acid