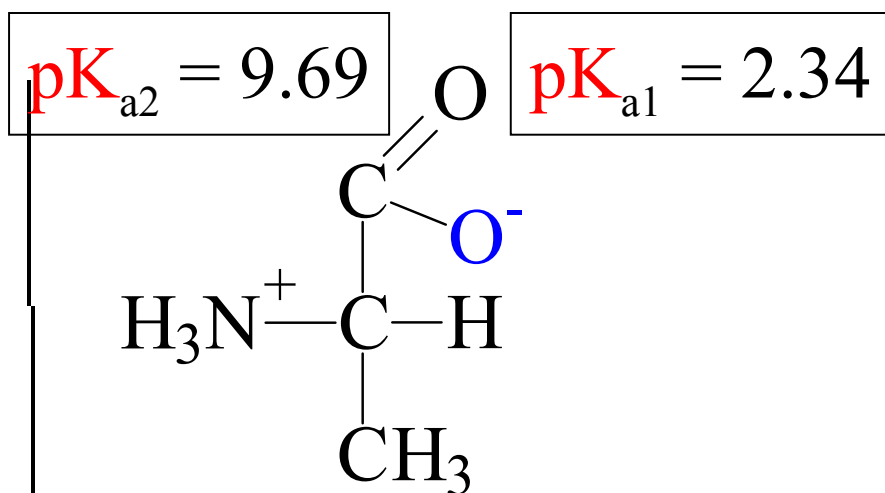


at **equivalence** point:



**isoelectric** point

$$\text{pH} = \frac{\text{pK}_{\text{a}1} + \text{pK}_{\text{a}2}}{2}$$

$$\text{pH} = (2.34 + 9.69)/2$$

$$\text{pH} = \text{pH}_I = 6.02$$