

pK - Werte von Aminosäuren

			pK _{s1} -COOH	pK _{s2} -NH ₃ ⁺	pK _R R-Gruppe
Alanin	Ala	A	2.34	9.69	
Arginin	Arg	R	2.18	9.09	13.2
Asparagin	Asn	N	2.02	8.8	
Asparaginsäure	Asp	D	1.88	9.6	3.65
Cystein	Cys	C	1.71	10.78	8.33
Glutamin	Gln	Q	2.17	9.13	
Glutaminsäure	Glu	E	2.19	9.67	4.25
Glycin	Gly	G	2.34	9.6	
Histidin	His	H	1.82	9.17	6.0
Isoleucin	Ile	I	2.32	9.76	
Leucin	Leu	L	2.36	9.60	
Lysin	Lys	K	2.18	8.95	10.53
Methionin	Met	M	2.28	9.21	
Phenylalanin	Phe	F	2.58	9.24	
Prolin	Pro	P	1.99	10.60	
Serin	Ser	S	2.21	9.15	
Threonin	Thr	T	2.16	9.12	
Tryptophan	Trp	W	2.38	9.39	
Tyrosin	Tyr	Y	2.20	9.11	
Valin	Val	V	2.29	9.72	

$$\text{Neutrale und unpolare AS } pI = \frac{pK_{s1} + pK_{s2}}{2}$$

$$\text{Saure AS } pI = \frac{pK_{s1} + pK_R}{2}$$

$$\text{Basische AS } pI = \frac{pK_{s2} + pK_R}{2}$$