

## Proteinogenic Amino Acids (see also [Wikipedia](#))

AMINO ACID	NAME	codes	Isoelectric point <i>pI</i>	Solubility at <i>pI</i> g/100 mL water 20 °C
	GLYCINE	Gly G	5.97	22.5
	ALANINE	Ala A	6.00	15.8
	ASPARAGINE	Asn N	5.41	
	CYSTEINE	Cys C	5.07	very
	GLUTAMINE	Gln Q	5.65	
	* ISOLEUCINE	Ileu I	6.02	2.1
	* LEUCINE	Leu L	5.98	2.4
	* METHIONINE	Met M	5.74	3.0
	* PHENYLALANINE	Phe F	5.48	2.7
	PROLINE	Pro P	6.30	154.5
	SERINE	Ser S	5.68	4.3
	* THREONINE	Thr T	5.60	1.6
	* TRYPTOPHAN	Trp W	5.89	1.1
	TYROSINE	Tyr Y	5.66	0.04
	* VALINE	Val V	5.96	6.8
	ASPARTIC ACID	Asp D	2.77	0.4
	GLUTAMIC ACID	Glu E	3.22	0.7
	* LYSINE	Lys K	9.74	very
	* ARGININE	Arg R	10.76	very
	* HISTIDINE	His H	7.59	4.0

\* denotes 'essential'