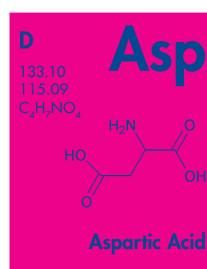
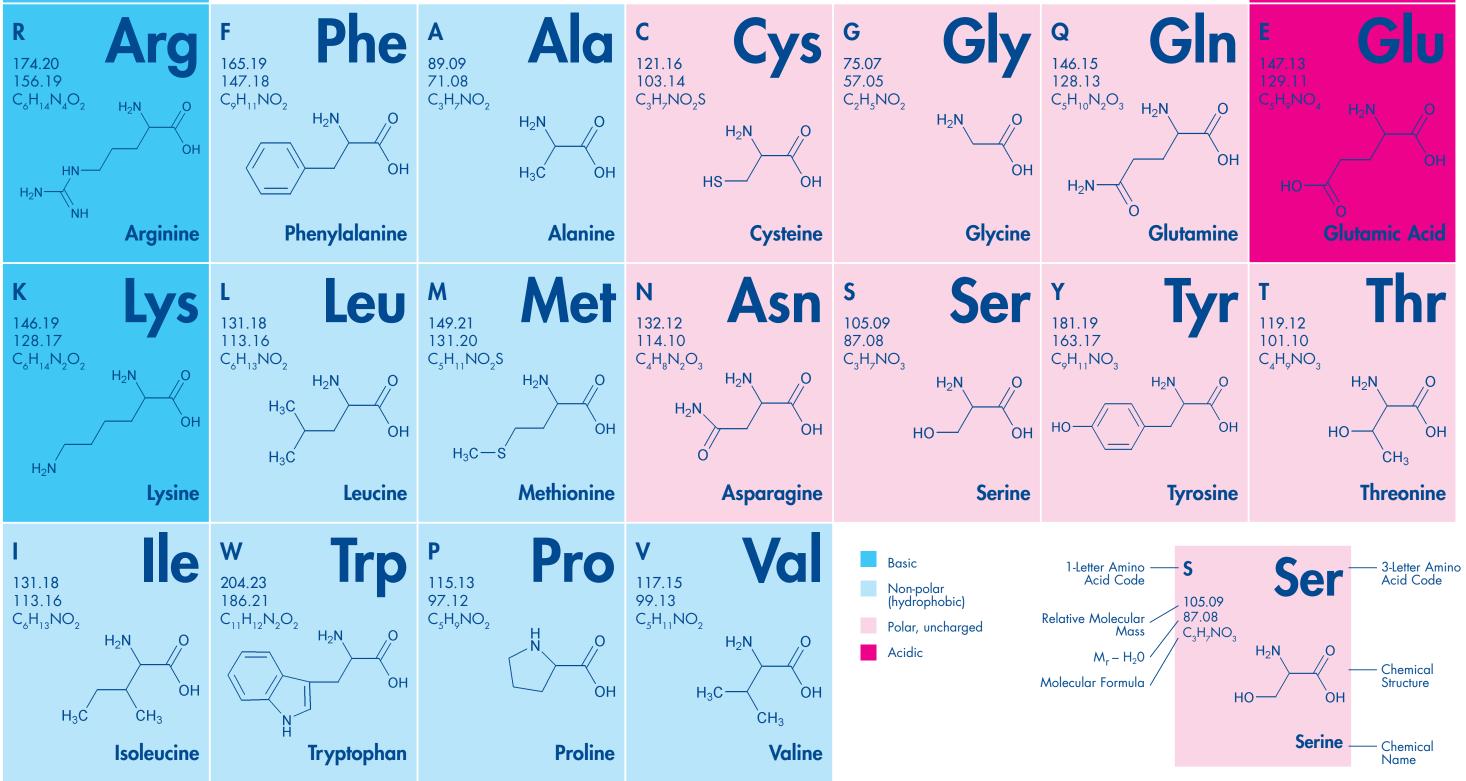
H 155.16 137.14 C₆H₉N₃O₂ H₂N OH Histidine

Periodic Chart of Amino Acids

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Absorption and Emission Characteristics of Chromophores and Fluorophores

Common Boc-Strategy SPPS* Protecting Groups

y- 0
H ₃ C
hyl- H_3C H_3C O II S
H ₃ C CH ₃
CH ₃

Excitation Wavelength	Emission Wavelength
320 nm	420 nm
340 - 360 nm	440 - 450 nm
395 - 400 nm	495 - 505 nm
360 - 380 nm	440 - 460 nm
342 nm	562 nm
340 nm	490 nm
490 nm	520 nm
325 nm	392 nm
335 - 350 nm	410 - 440 nm
320 - 340 nm	410 - 420 nm
280 nm	360 nm
Extinction Wavelength	Molar Extinction Coefficient
405 nm 410 nm	$\epsilon_{405 \text{ nm}} = 9450 \text{ M}^{-1} \text{cm}^{-1}$ $\epsilon_{410 \text{ nm}} = 8800 \text{ M}^{-1} \text{cm}^{-1}$
	Wavelength 320 nm 340 - 360 nm 395 - 400 nm 360 - 380 nm 342 nm 340 nm 490 nm 325 nm 320 - 340 nm 280 nm Extinction Wavelength

	Boc t-Butyloxycarbonyl $M_r = 101.13$	H_3C CH_3 CH_3
	Tos Tosyl M _r = 155.20	H ₃ C — S — II O
	Mbzl 4-Methylbenzyl M _r = 105.16	H ₃ C
	Bom Benzyloxymethyl M _r = 121.16	0
	2-Chloro-Z 2-Chlorobenzyloxy-carbonyl $M_r = 169.59$	CI
cm ⁻¹	For Formyl M _r = 29.02	H

