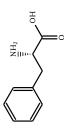
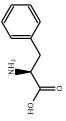
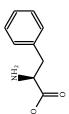


Group 1



Periodic Table of the Elements





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Helium	$\mathop{\overset{\text{10}}{Neon}}_{\stackrel{\text{neon}}{20.18}}$	$\mathop{\rm Ar}_{\mathop{\sf argon}\atop {\it 39.8775}}$	36 Kr krypton 83.798	54 Xenon xenon 131.29	$\mathop{Rn}\limits_{{}^{radon}^{(222)}}$	Oganesson (294)
71	9 Huorine 18.998	17 C1 chlorine 35.4515	$\frac{35}{\mathbf{Br}}$ bromine	53 Iodine 126.9	85 At astatine (210)	TS tennessine (294)
91	8 O oxygen 15.9995	16 S sulfur 32.0675	Se selenium 78.971	52 Tellurium 127.6	Po polonium (209)	$\sum_{\substack{\text{livermorium}\\(293)}}$
51	$\sum_{\substack{\text{nitrogen}\\14.007}}^{7}$	$\Pr_{\substack{\mathbf{p} \\ 30.974}}$	AS arsenic 74.922	SD antimony 121.76	$\overset{83}{ extbf{Bi}}$ bis $\overset{\text{bismuth}}{ ext{208.98}}$	MC moscovium (290)
4-	6 carbon 12.0105	Si silicon 28.085	32 Germanium 72.63	$\mathop{Sn}_{\text{tin}}^{\text{so}}$	\Pr_{lead}^{82}	114 F1 Herovium (289)
13	$\overset{5}{\mathbf{B}}$	$\mathop{\mathrm{Al}}_{\substack{13 \ 26.982}}$	Gallium 69.723	$\lim_{\substack{\text{indium}\\114.82}}$	81 T1 thallium 204.385	Nh nihonium (286)
		12	$\sum_{\substack{zinc\\65.38}}^{30}$	48 cadmium 112.41	Hg mercury 200.59	$\mathop{Ch}\limits_{\text{copernicium}\atop(285)}$
		E	$\overset{29}{Cu}_{\overset{copper}{copper}}$	$\mathop{\mathrm{Ag}}_{\mathrm{silver}}^{47}$	$\mathop{Au}_{{}_{\text{gold}}}^{79}$	$\mathop{Rg}_{\text{roentgenium}}$
		01	$\overset{28}{\overset{\text{nickel}}{\overset{\text{nickel}}{\overset{\text{ss.693}}{\overset{ss.693}}{\overset{\text{ss.693}}}{\overset{\text{ss.693}}}{\overset{\text{ss.693}}{\text{ss.693$	Pd palladium 106.42	Pt platinum 195.08	DS darmstadtium rc
		6	27 CO cobalt 58.933	$\mathop{Rh}_{{}^{\text{rhodium}}}$	$\prod_{ ext{iridium}}^{77}$	$\overset{\text{109}}{\underset{(278)}{\text{Mt}}}$
		∞	26 Fe iron 55.845	$\mathop{Ru}_{\text{ruthenium}}^{44}$	OS osmium 190.23	HS hassium (269)
	Z: atomic number Sy: symbol element: element name saw: standard atomic weight†	7	$\stackrel{25}{\mathrm{Mn}}_{\mathrm{manganese}}$	$\prod_{\substack{\text{technetium} \\ (97)}}^{43}$	$\mathop{Re}_{{}^{rhenium}}^{75}$	Bh bohrium (270)
	Z: atomic number Sy: symbol element: element name saw: standard atomic w	9	$\displaystyle \mathop{CI}_{\text{chromium}}^{24}$	MO molybdenum 95.95	$\overset{74}{\text{W}}$ tungsten 183.84	$^{106}_{\mathrm{Seaborgium}}$
	$\sum_{\substack{z\\\text{element}\\\text{saw}}}^{z}$	2	$\sum_{\text{vanadium}}^{23}$	ND niobium	$\overset{73}{\mathrm{Ta}}$	Db dubnium (268)
		4	$\prod_{ ext{titanium}}^{22}$	$\sum_{\mathrm{zirconium}}^{40}$	Hf hafnium 1.78.49	$\mathop{Rf}_{\text{rutherfordium}}$
		٣	Sc scandium 44.956	39 Ytrium 88.906	* anthanides	***
7	$\mathop{Be}_{\text{beryllium}}^{4}$	$\stackrel{12}{\mathrm{Mg}}_{\mathrm{magnesium}}$	$\overset{20}{\mathrm{Ca}}$	$\sum_{\text{Strontium}}^{38}$	$\mathop{Ba}\limits_{\substack{barium\\barium\\137.33}}$	$\mathop{Ra}\limits_{\stackrel{radium}{radium}}^{88}$
H hydrogen 1.008	$\sum_{\substack{\mathbf{i} \\ lithium \\ 6.9675}}^{3}$	$\overset{\text{11}}{\overset{\text{sodium}}{\overset{\text{sodium}}{\overset{\text{22.99}}{\overset{\text{9}}{\overset{\text{1}}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{1}}{\overset{\text{1}}}{\overset{\text{1}}{\overset{\text{1}}}}}}{\overset{\text{1}}{\overset{\text{1}}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{1}}{\overset{\text{1}}{\overset{\text{1}}{\overset{1}}}}}{\overset{\text{1}}{\overset{\text{1}}}{\overset{\text{1}}{\overset{1}}}}{\overset{\text{1}}{\overset{\text{1}}{\overset{1}}}{\overset{\text{1}}{\overset{1}}}}{\overset{\text{1}}}{\overset{\text{1}}{\overset{1}}}}{\overset{\text{1}}{\overset{1}}}{\overset{1}}}}{\overset{1}}}{\overset{1}}{\overset{1}}}{\overset{1}}{\overset{1}}}{\overset{1}}}}}}}}$	19 K potassium 39.098	Rb rubidium 85.468	$\displaystyle \mathop{C_{\mathbf{S}}}_{\text{caesium}}$	87 Francium (223)

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$\overset{7}{\text{Lu}}$	$\frac{103}{\mathbf{L}\mathbf{r}}$ lawrencium (266)
$\sum_{\text{ytterbium}}^{70}$	$\mathop{No}_{\text{nobelium}\atop (259)}$
$\prod_{\substack{\text{thulium}\\168.93}}$	$\mathop{Md}_{\text{mendelevium}}$
$\frac{68}{\mathbf{E} \mathbf{I}}$ erbium	$\stackrel{\text{100}}{\mathrm{Fm}}_{\stackrel{\text{fermium}}{(257)}}$
$\displaystyle \mathop{Ho}_{\text{holmium}}^{67}$	$\mathop{Es}\limits_{\text{einsteinium}\atop(252)}$
66 Dy dysprosium 162.5	$\mathop{Cf}_{\text{californium}\atop (251)}^{98}$
$\prod_{\substack{\text{terbium}\\158.93}}$	$\frac{97}{Bk}$ berkelium (247)
$\mathop{Gd}_{{\scriptscriptstyle{Dadolinium}}\atop{\scriptscriptstyle{157.25}}}$	$\mathop{cmim}\limits_{{}^{(247)}}^{96}$
\dot{E}_{u} europium	$\mathop{\mathrm{Am}}_{^{\mathrm{americium}}}$
$\mathop{\mathrm{Sm}}_{samarium}^{62}$	$\Pr_{\text{plutonium}\atop{(244)}}$
$\underset{promethium}{Pm}_{\underset{(145)}{\text{promethium}}}$	$\mathop{Np}\limits_{\substack{p\\ \text{neptunium}\\ (237)}}$
$\mathop{Nd}\limits_{{{neodymium}\atop{144.24}}}$	92 U uranium 238.03
$\sum_{\text{praseodymium}\atop{140.91}}$	$\Pr_{\substack{p \text{rotactinium} \ 231.04}}$
$\mathop{\mathrm{Ce}}_{cerium}^{58}$	$\prod_{\substack{\text{thorium}\\232.04}}$
$\mathop{La}\limits_{\substack{lanthanum\\138.91}}$	$\mathop{\mathrm{Ac}}_{{}^{227)}}^{89}$
*	* *

†Standard atomic weights (average terrestrial atomic weight) taken from the Commission on Isotopic Abundances and Atomic Weights (http://www.ciaaw.org/abridged-atomic-weights.htm). If CIAAW indicates a range for the standard atomic weight of an element, I used the arithmetic mean of the boundaries of the range. Elements with atomic weight in parentheses (e.g., Francium (223)) have no known stable isotopes and it is therefore impossible to propose a representative isotope is provided. Inspired by Ivan Griffinis BigA Periodic Table. BigCode is released under the MIT open source license. Final product (this Table) is released under creative commons attribution/share-alike copyright terms. ©00 2022. Paul N. Danese

