

Z	Element	Symbol	Average atomic mass (u)	Mass number (* indicates radioactive) A	Atomic mass (u)	Percent abundance	Half-life (if radioactive) $T_{1/2}$
61	Promethium	Pm		145* 146*	144.912 745 145.914 968		17.7 y 5.5 y
62	Samarium	Sm	150.36	147* 148* 149* 150 152 154	146.914 894 147.914 819 148.917 180 149.917 273 151.919 728 153.922 206	15.0 11.3 13.8 7.4 26.7 22.7	1.06×10^{11} y 7×10^{15} y $> 2 \times 10^{15}$ y
63	Europium	Eu	151.96	151 152* 153	150.919 846 151.921 740 152.921 226	47.8 52.2	13.5 y
64	Gadolinium	Gd	157.25	155 156 157 158 160	154.922 618 155.922 119 156.923 957 157.924 099 159.927 050	14.80 20.47 15.65 24.84 21.86	
65	Terbium	Tb	158.9253	159	158.925 345	100	
66	Dysprosium	Dy	162.5	161 162 163 164	160.926 930 161.926 796 162.928 729 163.929 172	18.9 25.5 24.9 28.2	
67	Holmium	Ho	164.9303	165	164.930 316	100	
68	Erbium	Er	167.26	166 167 168 170	165.930 292 166.932 047 167.932 369 169.935 462	33.6 22.95 27.8 14.9	
69	Thulium	Tm	168.9342	169 171*	168.934 213 170.936 428	100	1.92 y
70	Ytterbium	Yb	173.04	171 172 173 174 176	170.936 324 171.936 379 172.938 209 173.938 861 175.942 564	14.3 21.9 16.12 31.8 12.7	
71	Lutetium	Lu	174.967	175 176*	174.940 772 175.942 679	97.41 2.59	3.78×10^{10} y
72	Hafnium	Hf	178.49	177 178 179 180	176.943 218 177.943 697 178.945 813 179.946 547	18.606 27.297 13.029 35.100	
73	Tantalum	Ta	180.9479	181	180.947 993	99.988	
74	Tungsten	W	183.85	182 183 184 186	181.948 202 182.950 221 183.950 929 185.954 358	26.3 14.28 30.7 28.6	
75	Rhenium	Re	186.207	185 187*	184.952 951 186.955 746	37.40 62.60	4.4×10^{10} y
76	Osmium	Os	190.2	188 189 190 192	187.955832 188.958 139 189.958 439 191.961 468	13.3 16.1 26.4 41.0	
77	Iridium	Ir	192.2	191 193	190.960 585 192.962 916	37.3 62.7	