

TABLE OF ATOMIC MASSES

The table gives the atomic masses of some isotopes of each element. All naturally occurring stable isotopes are included (with their natural abundances shown in italics in the last column). Some of the longer-lived radioactive isotopes of each element are also included, with their half-lives. Each element has many other radioactive isotopes that are not included in this table. More complete listings can be found in the 2016 atomic mass evaluation at the Atomic Mass Data Center, [//www-nds.iaea.org/amdc](http://www-nds.iaea.org/amdc).

In the half-life column, My = 10^6 years.

	<i>Z</i>	<i>A</i>	Atomic mass (u)	<i>Abundance</i> or Half-life		<i>Z</i>	<i>A</i>	Atomic mass (u)	<i>Abundance</i> or Half-life
H	1	1	1.0078250	99.985%	Na	11	21	20.997655	22.5 s
		2	2.014102	0.015%			22	21.994437	2.60 y
		3	3.016049	12.3 y			23	22.989769	100%
He	2	3	3.016029	0.000137%			24	23.990963	15.0 h
		4	4.002603	99.999863%			25	24.989954	59 s
Li	3	6	6.015123	7.59%	Mg	12	26	25.992635	1.1 s
		7	7.016003	92.41%			22	21.999571	3.88 s
		8	8.022486	0.84 s			23	22.994124	11.3 s
Be	4	7	7.016929	53.2 d			24	23.985042	78.99%
		8	8.005305	0.07 fs			25	24.985837	10.00%
		9	9.012183	100%			26	25.982593	11.01%
		10	10.013535	1.5 My			27	26.984341	9.46 m
		11	11.021661	13.8 s			28	27.983877	20.9 h
B	5	8	8.024607	0.77 s	Al	13	25	24.990428	7.18 s
		9	9.013330	0.85 as			26	25.986892	0.72 My
		10	10.012937	19.9%			27	26.981538	100%
		11	11.009305	80.1%			28	27.981910	2.24 m
		12	12.014353	20.2 ms			29	28.980453	6.56 m
C	6	10	10.016853	19.3 s	Si	14	26	25.992334	2.25 s
		11	11.011433	20.4 m			27	26.986705	4.15 s
		12	12.000000	98.93%			28	27.976927	92.22%
		13	13.003355	1.07%			29	28.976495	4.68%
		14	14.003242	5730 y			30	29.973770	3.09%
		15	15.010599	2.45 s			31	30.975363	2.62 h
N	7	13	13.005739	9.96 m			32	31.974151	153 y
		14	14.003074	99.63%	P	15	29	28.981800	4.14 s
		15	15.000109	0.37%			30	29.978313	2.50 m
		16	16.006102	7.1 s			31	30.973762	100%
		17	17.008449	4.2 s			32	31.973908	14.3 d
O	8	14	14.008597	70.6 s			33	32.971726	25.3 d
		15	15.003066	122 s	S	16	30	29.984907	1.18 s
		16	15.994915	99.76%			31	30.979557	2.55 s
		17	16.999132	0.038%			32	31.972071	94.99%
		18	17.999160	0.200%			33	32.971459	0.75%
		19	19.003578	26.9 s			34	33.967867	4.25%
		20	20.004075	13.5 s			35	34.969032	87.4 d
F	9	17	17.002095	64.5 s			36	35.967081	0.01%
		18	18.000937	1.83 h	Cl	17	37	36.971126	5.05 m
		19	18.998403	100%			33	32.977452	2.51 s
		20	19.999981	11 s			34	33.973762	1.53 s
		21	20.999949	4.2 s			35	34.968853	75.77%
Ne	10	18	18.005709	1.7 s			36	35.968307	0.30 My
		19	19.001881	17.2 s			37	36.965903	24.23%
		20	19.992440	90.48%			38	37.968010	37.2 m
		21	20.993847	0.27%			39	38.968008	56.2 m
		22	21.991385	9.25%					
		23	22.994467	37.2 s					
		24	23.993611	3.4 m					

	<i>Z</i>	<i>A</i>	Atomic mass (u)	<i>Abundance</i> or Half-life		<i>Z</i>	<i>A</i>	Atomic mass (u)	<i>Abundance</i> or Half-life
Ar	18	34	33.980270	0.844 s	Cr	24	48	47.954029	21.6 h
		35	34.975258	1.78 s			49	48.951333	42.3 m
		36	35.967545	0.334%			50	49.946041	4.35%
		37	36.966776	35.0 d			51	50.944765	27.7 d
		38	37.962732	0.063%			52	51.940505	83.79%
		39	38.964313	269 y			53	52.940647	9.50%
		40	39.962383	99.60%			54	53.938878	2.36%
		41	40.964501	1.82 h			55	54.940837	3.50 m
K	19	42	41.963046	32.9 y			56	55.940649	5.94 m
		37	36.973376	1.23 s	Mn	25	52	51.945564	5.59 d
		38	37.969081	7.64 m			53	52.941288	3.7 My
		39	38.963706	93.26%			54	53.940356	312 d
		40	39.963998	1.25 Gy			55	54.938043	100%
		41	40.961825	6.73%			56	55.938903	2.58 h
		42	41.962402	12.3 h			57	56.938286	85.4 s
Ca	20	43	42.960735	22.3 h	Fe	26	52	51.948115	8.72 h
		38	37.976319	0.44 s			53	52.945306	8.51 m
		39	38.970711	0.86 s			54	53.939608	5.85%
		40	39.962591	96.94%			55	54.938291	2.74 y
		41	40.962278	0.099 My			56	55.934936	91.75%
		42	41.958618	0.647%			57	56.935392	2.12%
		43	42.958766	0.135%			58	57.933274	0.28%
		44	43.955482	2.09%			59	58.934874	44.5 d
		45	44.956186	163 d			60	59.934070	2.6 My
		46	45.953688	0.0035%			61	60.936746	6.0 m
		47	46.954541	4.54 d	Co	27	57	56.936290	272 d
Sc	21	48	47.952523	0.187%			58	57.935751	70.8 d
		49	48.955663	8.72 m			59	58.933194	100%
		43	42.961151	3.89 h			60	59.933816	5.27 y
		44	43.959403	3.97 h			61	60.932476	1.65 h
		45	44.955908	100%	Ni	28	56	55.942128	6.08 d
		46	45.955168	83.8 d			57	56.939792	35.6 h
		47	46.952403	3.35 d			58	57.935342	68.08%
		48	47.952223	43.7 h			59	58.934346	0.076 My
Ti	22	44	43.959690	60 y			60	59.930785	26.22%
		45	44.958121	3.08 h			61	60.931055	1.14%
		46	45.952627	8.25%			62	61.928345	3.63%
		47	46.951758	7.44%			63	62.929669	101 y
		48	47.947941	73.72%			64	63.927966	0.93%
		49	48.947865	5.41%			65	64.930085	2.52 h
		50	49.944786	5.18%	Cu	29	61	60.933457	3.33 h
		51	50.946610	5.76 m			62	61.932595	9.67 m
		52	51.946892	1.7 m			63	62.929597	69.17%
V	23	48	47.952251	16.0 d			64	63.929764	12.7 h
		49	48.948511	329 d			65	64.927790	30.83%
		50	49.947156	0.250%			66	65.928869	5.12 m
		51	50.943957	99.750%			67	66.927730	61.8 h
		52	51.944773	3.74 m					
		53	52.944336	1.54 m					

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Zn	30	62	61.934334	9.19 h	Br	35	77	76.921379	57.0 h
		63	62.933211	38.5 m			78	77.921146	6.46 m
		64	63.929142	49.2%			79	78.918338	50.69%
		65	64.929241	244 d			80	79.918530	17.7 m
		66	65.926034	27.7%			81	80.916288	49.31%
		67	66.927128	4.0%			82	81.916802	35.3 h
		68	67.924844	18.5%			83	82.915175	2.40 h
		69	68.926550	56 m	Kr	36	76	75.925911	14.8 h
		70	69.925319	0.61%			77	76.924670	74.4 m
		71	70.927720	2.45 m			78	77.920366	0.35%
Ga	31	67	66.928202	3.26 d			79	78.920083	35.0 h
		68	67.927980	67.7 m			80	79.916378	2.28%
		69	68.925574	60.11%			81	80.916590	0.229 My
		70	69.926022	21.1 m			82	81.913481	11.58%
		71	70.924703	39.89%			83	82.914127	11.49%
		72	71.926367	14.1 h			84	83.911498	57.00%
		73	72.925175	4.86 h			85	84.912527	10.8 y
Ge	32	68	67.928095	271 d	Rb	37	83	82.915114	86.2 d
		69	68.927965	39.0 h			84	83.914375	32.8 d
		70	69.924249	20.5%			85	84.911790	72.17%
		71	70.924952	11.4 d			86	85.911167	18.6 d
		72	71.922076	27.5%			87	86.909181	27.83%
		73	72.923459	7.8%			88	87.911316	17.8 m
		74	73.921178	36.5%	Sr	38	82	81.918400	25.3 d
		75	74.922858	82.8 m			83	82.917554	32.4 h
		76	75.921403	7.8%			84	83.913419	0.56%
		77	76.923550	11.3 h			85	84.912932	64.8 d
As	33	73	72.923829	80.3 d			86	85.909261	9.86%
		74	73.923929	17.8 d			87	86.908877	7.00%
		75	74.921595	100%			88	87.905612	82.58%
		76	75.922392	26.3 h			89	88.907451	50.6 d
		77	76.920648	38.8 h			90	89.907731	28.9 y
Se	34	72	71.927141	8.4 d	Y	39	87	86.910876	79.8 h
		73	72.926755	7.1 h			88	87.909501	106.6 d
		74	73.922476	0.86%			89	88.905841	100%
		75	74.922523	120 d			90	89.907145	64.1 h
		76	75.919214	9.2%			91	90.907298	58.5 d
		77	76.919914	7.6%	Zr	40	88	87.910221	83.4 d
		78	77.917309	23.7%			89	88.908882	78.4 h
		79	78.918499	0.33 My			90	89.904699	51.45%
		80	79.916522	49.8%			91	90.905640	11.22%
		81	80.917993	18.5 m			92	91.905035	17.15%
		82	81.916700	8.8%			93	92.906471	1.61 My
		83	82.919119	70.1 s			94	93.906313	17.38%
							95	94.908040	64.0 d
							96	95.908278	2.80%
							97	96.910957	16.7 h

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Nb	41	91	90.906990	680 y
		92	91.907189	35 My
		93	92.906373	100%
		94	93.907279	20,300 y
		95	94.906831	35.0 d
Mo	42	90	89.913931	5.56 h
		91	90.911745	15.5 m
		92	91.906807	14.6%
		93	92.906809	4000 y
		94	93.905084	9.2%
		95	94.905837	15.9%
		96	95.904675	16.7%
		97	96.906017	9.6%
		98	97.905404	24.3%
		99	98.907707	65.9 h
		100	99.907468	9.7%
		101	100.910338	14.6 m
Tc	43	95	94.907652	20.0 h
		96	95.907867	4.3 d
		97	96.906361	4.2 My
		98	97.907211	4.2 My
		99	98.906250	0.211 My
Ru	44	100	99.907653	15.5 s
		94	93.911343	51.8 m
		95	94.910404	1.64 h
		96	95.907589	5.5%
		97	96.907546	2.83 d
		98	97.905287	1.86%
		99	98.905930	12.8%
		100	99.904211	12.6%
		101	100.905573	17.1%
		102	101.904340	31.6%
		103	102.906315	39.3 d
		104	103.905425	18.6%
		105	104.907746	4.44 h
Rh	45	101	100.906159	3.3 y
		102	101.906834	207 d
		103	102.905494	100%
		104	103.906645	42.3 s
		105	104.905688	35.4 h

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Pd	46	100	99.908520	3.63 d
		101	100.908285	8.47 h
		102	101.905632	1.02%
		103	102.906111	17.0 d
		104	103.904030	11.14%
		105	104.905080	22.33%
		106	105.903480	27.33%
		107	106.905128	6.5 My
		108	107.903892	26.46%
		109	108.905951	13.7 h
		110	109.905173	11.72%
		111	110.907690	23.4 m
Ag	47	105	104.906526	41.3 d
		106	105.906664	24.0 m
		107	106.905092	51.84%
		108	107.905950	2.37 m
		109	108.904756	48.16%
Cd	48	110	109.906111	24.6 s
		104	103.909856	57.7 m
		105	104.909464	55.5 m
		106	105.906460	1.25%
		107	106.906612	6.50 h
		108	107.904184	0.89%
		109	108.904987	461 d
		110	109.903008	12.5%
		111	110.904184	12.8%
		112	111.902764	24.1%
		113	112.904408	12.2%
		114	113.903365	28.7%
In	49	115	114.905437	53.5 h
		116	115.904763	7.5%
		117	116.907226	2.49 h
		111	110.905107	2.80 d
		112	111.905539	15.0 m
		113	112.904060	4.29%
		114	113.904916	71.9 s
		115	114.903879	95.71%
		116	115.905260	14.1 s

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Sn	50	110	109.907845	4.11 h	Xe	54	122	121.908368	20.1 h
		111	110.907741	35.3 m			123	122.908482	2.08 h
		112	111.904825	0.97%			124	123.905892	0.095%
		113	112.905176	115.1 d			125	124.906394	16.9 h
		114	113.902780	0.66%			126	125.904297	0.089%
		115	114.903345	0.34%			127	126.905183	36.4 d
		116	115.901743	14.54%			128	127.903531	1.91%
		117	116.902954	7.68%			129	128.904781	26.40%
		118	117.901607	24.22%			130	129.903509	4.07%
		119	118.903311	8.59%			131	130.905084	21.23%
		120	119.902202	32.58%			132	131.904155	26.91%
		121	120.904243	27.0 h			133	132.905911	5.24 d
		122	121.903444	4.63%			134	133.905393	10.44%
		123	122.905725	129 d			135	134.907232	9.14 h
		124	123.905278	5.79%			136	135.907214	8.86%
		125	124.907786	9.64 d			137	136.911558	3.82 m
		126	125.907659	0.23 My					
Sb	51	119	118.903946	38.2 h	Cs	55	131	130.905465	9.69 d
		120	119.905080	15.9 m			132	131.906438	6.48 d
		121	120.903810	57.21%			133	132.905452	100%
		122	121.905168	2.72 d			134	133.906719	2.06 y
		123	122.904214	42.79%			135	134.905977	2.3 My
		124	123.905936	60.1 d			136	135.907312	13.0 d
		125	124.905253	2.76 y					
Te	52	118	117.905854	6.00 d	Ba	56	128	127.908342	2.43 d
		119	118.906407	16.1 h			129	128.908681	2.23 h
		120	119.904060	0.09%			130	129.906321	0.106%
		121	120.904942	19.2 d			131	130.906941	11.5 d
		122	121.903043	2.55%			132	131.905061	0.101%
		123	122.904270	0.89%			133	132.906007	10.5 y
		124	123.902817	4.74%			134	133.904508	2.42%
		125	124.904430	7.07%			135	134.905689	6.59%
		126	125.903311	18.84%			136	135.904576	7.85%
		127	126.905226	9.35 h			137	136.905827	11.23%
		128	127.904461	31.74%			138	137.905247	71.70%
		129	128.906597	69.6 m			139	138.908841	83.1 m
		130	129.906223	34.08%					
		131	130.908522	25.0 m					
I	53	125	124.904629	59.4 d	La	57	136	135.907630	9.87 m
		126	125.905623	12.9 d			137	136.906451	60,000 y
		127	126.904472	100%			138	137.907118	0.090%
		128	127.905809	25.0 m			139	138.906359	99.910%
		129	128.904984	15.7 My			140	139.909483	1.68 d
		130	129.906670	12.4 h			141	140.910969	3.92 h

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Ce	58	134	133.908928	76 h	Eu	63	149	148.917937	93.1 d
		135	134.909161	17.7 h			150	149.919707	36.9 y
		136	135.907129	0.185%			151	150.919857	47.81%
		137	136.907763	9.0 h			152	151.921751	13.5 y
		138	137.905989	0.251%			153	152.921237	52.19%
		139	138.906658	137.6 d			154	153.922986	8.59 y
		140	139.905446	88.45%			155	154.922900	4.75 y
		141	140.908284	32.5 d			156	155.924763	15.2 d
		142	141.909250	11.11%	Gd	64	150	149.918664	1.79 My
		143	142.912392	33.0 h			151	150.920355	124 d
Pr	59	139	138.908943	4.41 h			152	151.919799	0.20%
		140	139.909084	3.39 m			153	152.921757	240 d
		141	140.907658	100%			154	153.920873	2.18%
		142	141.910050	19.1 h			155	154.922630	14.80%
		143	142.910823	13.6 d			156	155.922131	20.47%
Nd	60	140	139.909544	3.37 d			157	156.923968	15.65%
		141	140.909615	2.49 h			158	157.924112	24.84%
		142	141.907729	27.2%			159	158.926396	18.5 h
		143	142.909820	12.2%			160	159.927062	21.9%
		144	143.910093	23.8%			161	160.929677	3.66 m
		145	144.912579	8.3%	Tb	65	157	156.924032	71 y
		146	145.913123	17.2%			158	157.925420	180 y
		147	146.916106	11.0 d			159	158.925354	100%
		148	147.916899	5.7%			160	159.927175	72.3 d
		149	148.920155	1.73 h			161	160.927577	6.91 d
Pm	61	150	149.920902	5.6%	Dy	66	154	153.924429	3.0 My
		151	150.923840	12.4 m			155	154.925758	9.9 h
		143	142.910938	265 d			156	155.924284	0.06%
		144	143.912596	363 d			157	156.925470	8.1 h
		145	144.912756	17.7 y			158	157.924415	0.10%
		146	145.914702	5.53 y			159	158.925746	144.4 d
		147	146.915145	2.62 y			160	159.925203	2.3%
Sm	62	148	147.917481	5.37 d			161	160.926939	18.9%
		149	148.918342	53.1 h			162	161.926804	25.5%
		142	141.915205	72.5 m			163	162.928737	24.9%
		143	142.914635	8.75 m			164	163.929181	28.2%
		144	143.912006	3.1%			165	164.931709	2.33 h
		145	144.913417	340 d	Ho	67	163	162.928740	4570 y
		146	145.913047	103 My			164	163.930240	29 m
		147	146.914904	15.0%			165	164.930328	100%
		148	147.914829	11.2%			166	165.932290	26.8 h
		149	148.917191	13.8%			167	166.933139	3.0 h
		150	149.917282	7.4%					
		151	150.919939	90 y					
		152	151.919739	26.7%					
		153	152.922104	46.3 h					
		154	153.922216	22.7%					
		155	154.924647	22.3 m					

	<i>Z</i>	<i>A</i>	Atomic mass (u)	Abundance or Half-life		<i>Z</i>	<i>A</i>	Atomic mass (u)	Abundance or Half-life
Er	68	160	159.929077	28.6 h	W	74	178	177.945886	21.6 d
		161	160.930003	3.21 h			179	178.947080	37.0 m
		162	161.928787	0.14%			180	179.946713	0.12%
		163	162.930040	75.0 m			181	180.948219	121 d
		164	163.929207	1.60%			182	181.948206	26.5%
		165	164.930733	10.4 h			183	182.950225	14.3%
		166	165.930299	33.50%			184	183.950933	30.6%
		167	166.932054	22.87%			185	184.953421	75.1 d
		168	167.932376	26.98%			186	185.954365	28.4%
		169	168.934596	9.39 d			187	186.957161	24.0 h
		170	169.935471	14.91%	Re	75	183	182.950821	70.0 d
Tm	69	171	170.938036	7.52 h			184	183.952528	35.4 d
		167	166.932857	9.25 d			185	184.952958	37.40%
		168	167.934178	93.1 d			186	185.954989	3.72 d
		169	168.934218	100%			187	186.955752	62.60%
		170	169.935807	128.6 d			188	187.958114	17.0 h
		171	170.936435	1.92 y	Os	76	182	181.952110	21.8 h
Yb	70	166	165.933874	56.7 h			183	182.953120	13.0 h
		167	166.934953	17.5 m			184	183.952493	0.02%
		168	167.933889	0.13%			185	184.954046	93.6 d
		169	168.935182	32.0 d			186	185.953838	1.6%
		170	169.934767	3.0%			187	186.955750	2.0%
		171	170.936332	14.1%			188	187.955837	13.2%
		172	171.936387	21.7%			189	188.958146	16.2%
		173	172.938216	16.1%			190	189.958446	26.3%
		174	173.938868	32.0%			191	190.960928	15.4 d
		175	174.941282	4.19 d			192	191.961479	40.8%
		176	175.942575	13.0%			193	192.964150	30.1 h
		177	176.945264	1.9 h	Ir	77	189	188.958723	13.2 d
Lu	71	173	172.938936	1.37 y			190	189.960543	11.8 d
		174	173.940343	3.3 y			191	190.960592	37.3%
		175	174.940777	97.41%			192	191.962603	73.8 d
		176	175.942692	2.59%			193	192.962924	62.7%
		177	176.943764	6.65 d			194	193.965076	19.3 h
Hf	72	172	171.939450	1.87 y	Pt	78	188	187.959398	10.2 d
		173	172.940510	23.6 h			189	188.960849	10.9 h
		174	173.940049	0.16%			190	189.959950	0.012%
		175	174.941512	70 d			191	190.961676	2.83 d
		176	175.941410	5.26%			192	191.961043	0.78%
		177	176.943230	18.60%			193	192.962985	50 y
		178	177.943709	27.28%			194	193.962684	32.86%
		179	178.945826	13.62%			195	194.964794	33.78%
		180	179.946560	35.08%			196	195.964955	25.21%
		181	180.949111	42.4 d			197	196.967343	19.9 h
Ta	73	179	178.945939	1.82 y			198	197.967897	7.36%
		180	179.947468	0.012%			199	198.970597	30.8 m
		181	180.947999	99.988%					
		182	181.950155	115 d					

	<i>Z</i>	<i>A</i>	Atomic mass (u)	<i>Abundance</i> or Half-life
Au	79	195	194.965038	186 d
		196	195.966571	6.17 d
		197	196.966570	100%
		198	197.968244	2.696 d
		199	198.968767	3.14 d
Hg	80	194	193.965449	444 y
		195	194.966706	10.5 h
		196	195.965833	0.15%
		197	196.967214	64.1 h
		198	197.966769	10.0%
		199	198.968281	16.9%
		200	199.968327	23.1%
		201	200.970303	13.2%
		202	201.970644	29.9%
		203	202.972872	46.6 d
		204	203.973494	6.9%
Tl	81	205	204.976073	5.1 m
		201	200.970820	72.9 h
		202	201.972109	12.3 d
		203	202.972344	29.52%
		204	203.973863	3.78 y
		205	204.974427	70.48%
		206	205.976110	4.20 m
Pb	82	202	201.972152	53,000 y
		203	202.973391	51.9 h
		204	203.973043	1.4%
		205	204.974482	17.3 My
		206	205.974465	24.1%
		207	206.975897	22.1%
		208	207.976652	52.4%
		209	208.981090	3.23 h
Bi	83	207	206.978471	31.6 y
		208	207.979742	0.368 My
		209	208.980399	100%
		210	209.984120	5.01 d
		211	210.987269	2.14 m
Po	84	207	206.981593	5.80 h
		208	207.981246	2.90 y
		209	208.982430	124 y
		210	209.982874	138.4 d
At	85	209	208.986170	5.41 h
		210	209.987147	8.1 h
		211	210.987496	7.21 h
Rn	86	211	210.990601	14.6 h
		222	222.017576	3.82 d

	<i>Z</i>	<i>A</i>	Atomic mass (u)	<i>Abundance</i> or Half-life
Fr	87	212	211.996225	20.0 m
		223	223.019734	22.0 m
Ra	88	223	223.018501	11.43 d
		224	224.020211	3.63 d
		225	225.023611	14.9 d
		226	226.025409	1600 y
Ac	89	225	225.023229	10.0 d
		226	226.026097	29.4 h
		227	227.027751	21.77 y
Th	90	228	228.028740	1.91 y
		229	229.031761	7932 y
		230	230.033132	75,400 y
		231	231.036303	25.52 h
		232	232.038054	100%
		233	233.041580	21.8 m
Pa	91	230	230.034540	17.4 d
		231	231.035883	32,800 y
		232	232.038590	1.31 d
		234	234.043306	6.70 h
U	92	233	233.039634	0.1592 My
		234	234.040950	0.2455 My
		235	235.043928	0.720%
		236	236.045566	23.42 My
		237	237.048728	6.75 d
		238	238.050787	99.274%
Np	93	239	239.054292	23.5 m
		236	236.046570	0.154 My
		237	237.048172	2.14 My
		238	238.050945	2.117 d
Pu	94	238	238.049558	87.74 y
		239	239.052162	24,100 y
		240	240.053812	6561 y
		241	241.056850	14.3 y
		242	242.058741	0.375 My
Am	95	241	241.056827	432 y
		242	242.059547	16.0 h
		243	243.061380	7370 y
Cm	96	246	246.067222	4706 y
		247	247.070353	15.6 My
		248	248.072349	0.348 My
Bk	97	247	247.070306	1380 y
Cf	98	251	251.079587	898 y
		254	254.087324	60.5 d

	<i>Z</i>	<i>A</i>	Atomic mass (u)	<i>Abundance</i> or Half-life
Es	99	252	252.082980	472 d
Fm	100	257	257.095105	100.5 d
Md	101	258	258.098430	51.5 d
No	102	259	259.100998	58 m
Lr	103	260	260.105500	3.0 m
Rf	104	261	261.108770	68 s
Db	105	262	262.114070	35 s
Sg	106	261	261.115948	0.18 s
Bh	107	262	262.122970	22 ms
Hs	108	264	264.128360	0.8 ms

	<i>Z</i>	<i>A</i>	Atomic mass (u)	<i>Abundance</i> or Half-life
Mt	109	266	266.137370	1.7 ms
Ds	110	270	270.144580	0.1 ms
Rg	111	272	272.153270	4 ms
Cn	112	281	281.167150	97 ms
Nh	113	285	285.180070	4.2 s
Fl	114	289	289.190620	1.9 s
Mc	115	290	290.196350	0.65 s
Lv	116	293	293.204690	57 ms
Ts	117	294	294.210970	51 ms
Og	118	294	294.214130	0.69 ms