

Z	Element	A	m i n u	rel. Häufigkeit	Z	Element	A	m i n u	rel. Häufigkeit					
1	Wasserstoff	H	1	1.0078252	99.985	20	Calcium	Ca	40	39.962592	96.94			
			2	2.0141022					0.015	42	41.95863	0.65		
2	Helium	He	3	3.016030	10e-4				43	42.95877	0.14			
			4	4.002603	100				44	43.95548	2.08			
3	Lithium	Li	6	6.015123	7.5				46	45.95369	0.003			
			7	7.016005	92.5				48	47.95253	0.19			
4	Beryllium	Be	9	9.012183	100				21	Scandium	Sc	45	44.95592	100
5	Bor	B	10	10.012938	20							46	45.95263	8.0
			11	11.009305	80				47	46.95177	7.5			
6	Kohlenstoff	C	12	12.0000000	98.89				48	47.94795	73.7			
			13	13.003355	1.11	49	48.94787	5.5						
7	Stickstoff	N	14	14.0030744	99.64	23	Vanadium	V	50	49.94478	5.3			
			15	15.000109	0.36				50	49.94716	0.25			
8	Sauerstoff	O	16	15.994915	99.76	51	50.94396	99.75						
			17	16.999133	0.039	24	Chrom	Cr	50	49.94605	4.35			
			18	17.999160	0.205				52	51.94051	83.79			
9	Fluor	F	19	18.998405	100	53	52.94065	9.50						
10	Neon	Ne	20	19.992441	90.5	54	53.93888	2.36						
			21	20.993847	0.27	25	Mangan	Mn	55	54.93805	100			
			22	21.991385	9.2				26	Eisen	Fe	54	53.93961	5.8
11	Natrium	Na	23	22.98977	100	56	55.93493	91.7						
			12	Magnesium	Mg	24	23.985044	78.99	57	56.93539	2.14			
25	24.98584	10.00				58	57.93327	0.31						
26	25.982594	11.01				27	Kobalt	Co	59	58.93319	100			
13	Aluminium	Al	27	26.981541	100	28	Nickel	Ni	58	57.93534	67.76			
14	Silicium	Si	28	27.976929	92.2	60	59.93078	26.42						
			29	28.976497	4.7	61	60.93105	1.13						
			30	29.973772	3.1	62	61.92834	3.71						
15	Phosphor	P	31	30.973763	100	64	63.92796	0.95						
16	Schwefel	S	32	31.972073	95.0	29	Kupfer	Cu	63	62.92959	69.1			
			33	32.97146	0.75				65	64.92779	30.9			
			34	33.967870	4.2	30	Zink	Zn	64	63.92914	48.9			
			36	35.967080	0.015				66	65.92604	27.8			
17	Chlor	Cl	35	34.968854	75.77	67	66.92713	4.1						
			37	36.965903	24.23	68	67.92485	18.6						
18	Argon	Ar	36	35.967547	0.34	70	69.92533	0.62						
			38	37.962733	0.07	31	Gallium	Ga	69	68.92558	60			
			40	39.962384	99.59				71	70.92470	40			
19	Kalium	K	39	38.963709	93.3	32	Germanium	Ge	70	69.92425	20.7			
			40	39.964000	0.012				72	71.92208	27.5			
			41	40.961827	6.7				73	72.92346	7.7			

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		74	73.92118	36.4			100	99.90422	12.6
		76	75.92140	7.7			101	100.90558	17.1
33	Arsen	As 75	74.92160	100			102	101.90435	31.6
34	Selen	Se 74	73.92248	0.9			104	103.90543	18.6
		76	75.91921	9.0	45	Rhodium	Rh 103	102.90551	100
		77	76.91991	7.5	46	Palladium	Pd 102	101.90561	1.0
		78	77.91731	23.5			104	103.90401	11.0
		80	79.91653	50			105	104.90509	22.2
35	Brom	Br 79	78.91833	50.69			106	105.90349	27.3
		81	80.91629	49.31			108	107.90389	26.7
36	Krypton	Kr 78	77.92040	0.35			110	109.90516	11.8
		80	79.91638	2.25	47	Silber	Ag 107	106.90509	51.83
		82	81.91348	11.6			109	108.90475	48.17
		83	82.91413	11.5	48	Cadmium	Cd 106	105.90646	1.2
		84	83.91151	57.0			108	107.90419	0.9
		86	85.91062	17.3			110	109.90301	12.4
37	Rubidium	Rb 85	84.91180	72.17			111	110.90419	12.8
		87	86.90919	27.83			112	111.90276	24.0
38	Strontium	Sr 84	83.91343	0.56			113	112.90441	12.3
		86	85.90928	9.9			114	113.90337	28.8
		87	86.90889	7.0			116	115.90476	7.6
		88	87.90563	82.6	49	Indium	In 113	112.90409	4.3
39	Yttrium	Y 89	88.90587	100			115	114.90388	95.7
40	Zirkon	Zr 90	89.90471	51.4	50	Zinn	Sn 112	111.90483	1.0
		91	90.90564	11.2			114	113.90278	0.66
		92	91.90504	17.1			115	114.90335	0.35
		94	93.90632	17.5			116	115.90175	14.4
		96	95.90829	2.8			117	116.90296	7.6
41	Niob	Nb 93	92.90638	100			118	117.90161	24.1
42	Molybdän	Mo 92	91.90681	14.8			119	118.90331	8.6
		94	93.90509	9.1			120	119.90221	32.8
		95	94.90584	15.9			122	121.90345	4.7
		96	95.90467	16.7			124	123.90528	5.8
		97	96.90602	9.5	51	Antimon	Sb 121	120.90382	57.3
		98	97.90541	24.4			123	122.90422	42.7
		100	99.90748	9.6	52	Tellur	Te 120	119.90402	0.09
43	Technetium	Tc 98	97.90722	0			122	121.90306	2.4
44	Ruthenium	Ru 96	95.90760	5.5			123	122.90428	0.87
		98	97.90529	1.9			124	123.90283	4.6
		99	98.90594	12.7			125	124.90443	7.0
							126	125.90331	18.7

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		128	127.90447	31.8			154	153.92222	22.8		
		130	129.90623	34.5	63	Europium	Eu	151	150.91988	47.8	
53	Iod	I	127	126.90448	100			153	152.92126	52.2	
54	Xenon	Xe	124	123.9061	0.1	64	Gadolinium	Gd	152	151.91982	0.2
			126	125.90428	0.09			154	153.92089	2.2	
			128	127.90353	1.9			155	154.92264	14.9	
			129	128.90478	26.4			156	155.92214	20.6	
			130	129.90351	3.3			157	156.92397	15.7	
			131	130.90508	21.2			158	157.92412	24.7	
			132	131.90416	27.0			160	159.92707	21.7	
			134	133.90540	10.5	65	Terbium	Tb	159	158.92539	100
			136	135.90722	8.9	66	Dysprosium	Dy	156	155.9243	0.06
55	Cäsium	Cs	133	132.90544	100			158	157.92444	0.10	
56	Barium	Ba	130	129.90628	0.10			160	159.92523	2.3	
			132	131.90505	0.095			161	160.92697	18.9	
			134	133.90449	2.4			162	161.92684	25.5	
			135	134.90567	6.5			163	162.92877	24.9	
			136	135.90456	7.8			164	163.92922	28.2	
			137	136.90582	11.2	67	Holmium	Ho	165	164.93036	100
			138	137.90524	71.9	68	Erbium	Er	162	161.9288	0.14
57	Lanthan	La	138	137.90716	0.09			164	163.92924	1.6	
			139	138.90640	99.91			166	165.93032	33.4	
58	Cer	Ce	136	135.9072	0.19			167	166.93208	22.9	
			138	137.90603	0.26			168	167.93240	27.0	
			140	139.90548	88.5			170	169.93549	15.0	
			142	141.90930	11.1	69	Thulium	Tm	169	168.93425	100
59	Praseodym	Pr	141	140.9077	100	70	Ytterbium	Yb	168	167.93393	0.14
60	Neodym	Nd	142	141.90777	27.1			170	169.93479	3.0	
			143	142.90986	12.2			171	170.93635	14.3	
			144	143.91013	23.9			172	171.93640	21.9	
			145	144.91261	8.3			173	172.93823	16.2	
			146	145.91315	17.2			174	173.93888	31.8	
			148	147.91693	5.7			176	175.94258	12.7	
			150	149.92092	5.6	71	Lutetium	Lu	175	174.94080	97.4
61	Promethium	Pm	145	144.91274	0			176	175.94270	2.6	
62	Samarium	Sm	144	143.91207	3.1	72	Hafnium	Hf	174	173.9401	0.18
			147	146.91492	15.0			176	175.94143	5.2	
			148	147.91485	11.2			177	176.94325	18.5	
			149	148.91721	13.8			178	177.94372	27.2	
			150	149.91730	7.4			179	178.94584	13.8	
			152	151.91976	26.7			180	179.94658	35.1	

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73	Tantal	Ta	180	179.9476	0.01			209	208.98040	100							
			181	180.94803	99.99			210	209.98412	0							
74	Wolfram	W	180	179.947	0.13	84	Polonium	Po	210	209.98288	0						
			182	181.94825	26.3				85	Astat	At	210	209.98713	0			
			183	182.95027	14.3							86	Radon	Rn	220	220.01139	0
			184	183.95098	30.7										222	222.01761	0
			186	185.95440	28.6										87	Francium	Fr
75	Rhenium	Re	185	184.95301	37.40	88	Radium	Ra	226	226.02544	0						
			187	186.95579	62.60				89	Actinium	Ac	227	227.02777	0			
76	Osmium	Os	184	183.9526	0.02	90	Thorium	Th				230	230.03316	0			
			186	185.95388	1.6				232	232.03807	100						
			187	186.95579	1.6	91	Protactinium	Pa	231	231.03590	0						
			188	187.95588	13.3				92	Uran	U	233	233.03965	0			
			189	188.95818	16.1							234	234.04098	0			
			190	189.95848	26.4							235	235.04394	0.72			
192	191.96151	41.0	238	238.05082	99.28												
77	Iridium	Ir	191	190.96063	37.4			239	239.05433	0							
78	Platin	Pt	193	192.9630	62.6	93	Neptunium	Np	239	239.05295	0						
			190	189.9600	0.01				94	Plutonium	Pu	239	239.05216	0			
			192	191.96108	0.78	95	Americium	Am				241	241.05685	0			
			194	193.9627	32.9				243	243.06137	0						
			195	194.96480	33.8	96	Curium	Cm	247	247.07035	0						
			196	195.96497	25.3				97	Berkelium	Bk	247	247.07030	0			
			198	197.9679	7.2	98	Californium	Cf				251	251.07958	0			
79	Gold	Au	197	196.96655	100				99	Einsteinium	Es	252	252.08297	0			
						198	197.96823	0				100	Fermium	Fm	257	257.09510	0
80	Quecksilber	Hg	196	195.96582	0.15												
			198	197.96675	10.1												
			199	198.96828	16.9												
			200	199.96832	23.1												
			201	200.97030	13.2												
			202	201.97064	29.7												
81	Thallium	Tl	204	203.97350	6.8												
			203	202.97235	29.5												
			205	204.97444	70.5												
82	Blei	Pb	204	203.97305	1.4												
			206	205.97448	24.1												
			207	206.97590	22.1												
			208	207.97666	52.4												
			210	209.98419	0												
83	Bismut	Bi	208	207.97973	0												