

13	Al	Aluminium	name for alum, 'alumen' meaning bitter salt	13	3	26.9815386(8)	2.698	933.47	2792	0.897	1.61	82300
14	Si	Silicon	the Latin 'silex' or 'silicis', meaning flint	14	3	28.085 ^{4 9}	2.3296	1687	3538	0.705	1.9	282000
15	P	Phosphorus	the Greek 'phosphoros', meaning bringer of light	15	3	30.973762(2)	1.82	317.30	550	0.769	2.19	1050
16	S	Sulfur	Either from the Sanskrit 'sulvere', or the Latin 'sulfurium', both names for sulfur	16	3	32.06 ^{2 4 9}	2.067	388.36	717.87	0.71	2.58	350
17	Cl	Chlorine	the Greek 'chloros', meaning greenish yellow	17	3	35.45 ^{2 3 4 9}	0.003214	171.6	239.11	0.479	3.16	145
18	Ar	Argon	the Greek, 'argos', meaning idle	18	3	39.948(1) ^{2 4}	0.0017837	83.80	87.30	0.52	—	3.5
19	K	Potassium	the English word potash (kalium in Latin)	1	4	39.0983(1)	0.862	336.53	1032	0.757	0.82	20900
20	Ca	Calcium	the Latin 'calx' meaning lime	2	4	40.078(4) ²	1.54	1115	1757	0.647	1	41500
21	Sc	Scandium	Scandinavia (with the Latin name Scandia)	3	4	44.955912(6)	2.989	1814	3109	0.568	1.36	22
22	Ti	Titanium	Titans, the sons of the Earth goddess of Greek mythology	4	4	47.867(1)	4.54	1941	3560	0.523	1.54	5650
23	V	Vanadium	Vanadis, an old Norse name for the Scandinavian goddess Freyja	5	4	50.9415(1)	6.11	2183	3680	0.489	1.63	120
24	Cr	Chromium	the Greek 'chroma', meaning	6	4	51.9961(6)	7.15	2180	2944	0.449	1.66	102

33	As	Arsenic	'arsenikon' for the yellow pigment orpiment	15	4	74.92160(2)	5.776	1090 ⁷	887	0.329	2.18	1.8
34	Se	Selenium	Moon (with the Greek name selene)	16	4	78.96(3) ⁴	4.809	453	958	0.321	2.55	0.05
35	Br	Bromine	the Greek 'bromos' meaning stench	17	4	79.904 ⁹	3.122	265.8	332.0	0.474	2.96	2.4
36	Kr	Krypton	the Greek 'kryptos', meaning hidden	18	4	83.798(2) ^{2 3}	0.003733	115.79	119.93	0.248	3	<0.001
37	Rb	Rubidium	the Latin 'rubidius', meaning deepest red	1	5	85.4678(3) ²	1.532	312.46	961	0.363	0.82	90
38	Sr	Strontium	Strontian, a small town in Scotland	2	5	87.62(1) ^{2 4}	2.64	1050	1655	0.301	0.95	370
39	Y	Yttrium	Ytterby, Sweden	3	5	88.90585(2)	4.469	1799	3609	0.298	1.22	33
40	Zr	Zirconium	the Persian 'zargun', meaning gold coloured	4	5	91.224(2) ²	6.506	2128	4682	0.278	1.33	165
41	Nb	Niobium	Niobe, daughter of king Tantalus from Greek mythology	5	5	92.90638(2)	8.57	2750	5017	0.265	1.6	20
42	Mo	Molybdenum	the Greek 'molybdos' meaning lead	6	5	95.96(2) ²	10.22	2896	4912	0.251	2.16	1.2
43	Tc	Technetium	the Greek 'tekhnētos' meaning artificial	7	5	[98] ¹	11.5	2430	4538	–	1.9	<0.001
44	Ru	Ruthenium	Russia (with the Latin name Ruthenia)	8	5	101.07(2) ²	12.37	2607	4423	0.238	2.2	0.001
45	Rh	Rhodium	the Greek 'rhodon', meaning rose coloured	9	5	102.90550(2)	12.41	2237	3968	0.243	2.28	0.001
46	Pd	Palladium	the then recently discovered asteroid Pallas,	10	5	106.42(1) ²	12.02	1828.05	3236	0.244	2.2	0.015

			considered a planet at the time									
47	Ag	Silver	the Anglo-Saxon name siolfur (argentum in Latin)	11	5	$107.8682(2)^2$	10.501	1234.93	2435	0.235	1.93	0.075
48	Cd	Cadmium	the Latin name for the mineral calmine, 'cadmia'	12	5	$112.411(8)^2$	8.69	594.22	1040	0.232	1.69	0.159
49	In	Indium	the Latin 'indicium', meaning violet or indigo	13	5	$114.818(1)$	7.31	429.75	2345	0.233	1.78	0.25
50	Sn	Tin	the Anglo-Saxon word tin (stannum in Latin, meaning hard)	14	5	$118.710(7)^2$	7.287	505.08	2875	0.228	1.96	2.3
51	Sb	Antimony	the Greek 'anti – monos', meaning not alone (stibium in Latin)	15	5	$121.760(1)^2$	6.685	903.78	1860	0.207	2.05	0.2
52	Te	Tellurium	Earth, the third planet on solar system (with the Latin word tellus)	16	5	$127.60(3)^2$	6.232	722.66	1261	0.202	2.1	0.001
53	I	Iodine	the Greek 'iodes' meaning violet	17	5	$126.90447(3)$	4.93	386.85	457.4	0.214	2.66	0.45
54	Xe	Xenon	the Greek 'xenos' meaning stranger	18	5	$131.293(6)^2\ ^3$	0.005887	161.4	165.03	0.158	2.6	<0.001
55	Cs	Caesium	the Latin 'caesius', meaning sky blue	1	6	$132.9054519(2)$	1.873	301.59	944	0.242	0.79	3
56	Ba	Barium	the Greek 'barys', meaning heavy	2	6	$137.327(7)$	3.594	1000	2170	0.204	0.89	425
57	La	Lanthanum	the Greek 'lanthanein', meaning to		6	$138.90547(7)^2$	6.145	1193	3737	0.195	1.1	39

			lie hidden									
58	Ce	Cerium	Ceres, the Roman God of agriculture		6	140.116(1) ²	6.77	1068	3716	0.192	1.12	66.5
59	Pr	Praseodymium	the Greek 'praseos didymos' meaning green twin		6	140.90765(2)	6.773	1208	3793	0.193	1.13	9.2
60	Nd	Neodymium	the Greek 'neos didymos' meaning new twin		6	144.242(3) ²	7.007	1297	3347	0.19	1.14	41.5
61	Pm	Promethium	Prometheus of Greek mythology who stole fire from the Gods and gave it to humans		6	[145] ¹	7.26	1315	3273	–	1.13	<0.001
62	Sm	Samarium	Samarskite, the name of the mineral from which it was first isolated		6	150.36(2) ²	7.52	1345	2067	0.197	1.17	7.05
63	Eu	Europium	Europe		6	151.964(1) ²	5.243	1099	1802	0.182	1.2	2
64	Gd	Gadolinium	Johan Gadolin, chemist, physicist and mineralogist		6	157.25(3) ²	7.895	1585	3546	0.236	1.2	6.2
65	Tb	Terbium	Ytterby, Sweden		6	158.92535(2)	8.229	1629	3503	0.182	1.2	1.2
66	Dy	Dysprosium	the Greek 'dysprositos', meaning hard to get		6	162.500(1) ²	8.55	1680	2840	0.17	1.22	5.2
67	Ho	Holmium	Stockholm, Sweden (with the Latin name Holmia)		6	164.93032(2)	8.795	1734	2993	0.165	1.23	1.3
68	Er	Erbium	Ytterby, Sweden		6	167.259(3) ²	9.066	1802	3141	0.168	1.24	3.5
69	Tm	Thulium	Thule, the ancient name for Scandinavia		6	168.93421(2)	9.321	1818	2223	0.16	1.25	0.52
70	Yb	Ytterbium	Ytterby, Sweden		6	173.054(5) ²	6.965	1097	1469	0.155	1.1	3.2
71	Lu	Lutetium	Paris, France (with the	3	6	²	9.84	1925	3675	0.154	1.27	0.8

80	Hg	Mercury	the Solar System (Hg from former name hydrargyrum, from Greek hydr- water and argyros silver)	12	6	200.592(3)	13.5336	234.43	629.88	0.14	2	0.085
81	Tl	Thallium	the Greek 'thallos', meaning a green twig	13	6	204.38 ⁹	11.85	577	1746	0.129	1.62	0.85
82	Pb	Lead	the Anglo-Saxon lead (plumbum in Latin)	14	6	207.2(1) ^{2 4}	11.342	600.61	2022	0.129	1.87	14
83	Bi	Bismuth	the German 'Bisemutum' a corruption of 'Weisse Masse' meaning white mass	15	6	208.98040(1) ¹	9.807	544.7	1837	0.122	2.02	0.009
84	Po	Polonium	Poland, the native country of Marie Curie, who first isolated the element	16	6	[209] ¹	9.32	527	1235	–	2.0	<0.001
85	At	Astatine	the Greek 'astatos', meaning unstable	17	6	[210] ¹	7	575	610	–	2.2	<0.001
86	Rn	Radon	From radium, as it was first detected as an emission from radium during radioactive decay	18	6	[222] ¹	0.00973	202	211.3	0.094	2.2	<0.001
87	Fr	Francium	France, where it was first discovered	1	7	[223] ¹	1.87	300	950	–	0.7	<0.001
88	Ra	Radium	the Latin 'radius', meaning ray	2	7	[226] ¹	5.5	973	2010	0.094	0.9	<0.001
89	Ac	Actinium	the Greek 'actinos', meaning a ray		7	[227] ¹	10.07	1323	3471	0.12	1.1	<0.001
			Thor, the Scandinavian			1						

90	Th	Thorium	god of thunder		7	$^{232}_{80}\text{Th}$	11.72	2115	5061	0.113	1.3	9.6
91	Pa	Protactinium	the Greek 'protos', meaning first, as a prefix to the element actinium, which is produced through the radioactive decay of protactinium		7	$^{231}_{91}\text{Pa}$	15.37	1841	4300	–	1.5	<0.001
92	U	Uranium	Uranus, the seventh planet in the Solar System		7	$^{238}_{92}\text{U}$	18.95	1405.3	4404	0.116	1.38	2.7
93	Np	Neptunium	Neptune, the eighth planet in the Solar System		7	$^{237}_{93}\text{Np}$	20.45	917	4273	–	1.36	<0.001
94	Pu	Plutonium	Pluto, a dwarf planet in the Solar System		7	$^{244}_{94}\text{Pu}$	19.84	912.5	3501	–	1.28	<0.001
95	Am	Americium	Americas, the continent where the element was first synthesized		7	$^{243}_{95}\text{Am}$	13.69	1449	2880	–	1.13	<0.001
96	Cm	Curium	Pierre Curie, a physicist, and Marie Curie, a physicist and chemist		7	$^{247}_{96}\text{Cm}$	13.51	1613	3383	–	1.28	<0.001
97	Bk	Berkelium	Berkeley, California, USA, where the element was first synthesized		7	$^{247}_{97}\text{Bk}$	14.79	1259	2900	–	1.3	<0.001
98	Cf	Californium	State of California, USA, where the element was first synthesized		7	$^{251}_{98}\text{Cf}$	15.1	1173	$(1743)^{11}$	–	1.3	<0.001
99	Es	Einsteinium	Albert Einstein, physicist		7	$^{252}_{99}\text{Es}$	8.84	1133	$(1269)^{11}$	–	1.3	0^8
100	Fm	Fermium	Enrico Fermi,		7	$^{257}_{100}\text{Fm}$	–	$(1125)^{11}$	–	–	1.3	0^8

[illegible]

115	Uup	Ununpentium	IUPAC systematic element name	15	7	[288] ¹	(13.5) ¹¹	(700) ¹¹	(1400) ¹¹	–	–	0 ⁸
116	Lv	Livermorium	Lawrence Livermore National Laboratory (in Livermore, California) which collaborated with JINR on its synthesis	16	7	[293] ¹	(12.9) ¹¹	(708.5) ¹¹	(1085) ¹¹	–	–	0 ⁸
117	Uus	Ununseptium	IUPAC systematic element name	17	7	[294] ¹	(7.2) ¹¹	(673) ¹¹	(823) ¹¹	–	–	0 ⁸
118	Uuo	Ununoctium	IUPAC systematic element name	18	7	[294] ¹	(5.0) ^{11 13}	(258) ¹¹	(263) ¹¹	–	–	0 ⁸

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