

PERIODIC TABLE

Atomic Properties of the Elements

Greyhound - Setting the Standard

CUSTOM STANDARDS • INORGANIC STANDARDS

There are more than 110 known elements, but combining individual elements into a pure, usable reference material takes expertise and experience.

Our Custom blending service enables clients to obtain mixtures made to their own specific requirements.

ISO Quality procedures ensure every standard we supply is designed to be stable, compatible and easy to use.

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ISO 9001 : 2000

ISO GUIDE 17025

ISO GUIDE 34

Solids
 Gases
 Liquids
 Artificially Prepared

	1 IA			2 IIA															18 VIIIA		
1		H Hydrogen 1.00794 1s 13.5984																		2 He Helium 4.002602 1s ² 24.5874	
2		Li Lithium 6.941 1s ² 2s 5.3917		Be Beryllium 9.012182 1s ² 2s ² 9.3227																	10 Ne Neon 20.1797 1s ² 2s ² 2p ⁶ 21.5645
3		Na Sodium 22.989770 [Ne]3s 5.1391		Mg Magnesium 24.3050 [Ne]3s ² 7.6462																	18 Ar Argon 39.948 [Ne]3s ² 3p ⁶ 15.7596
PERIOD	4	K Potassium 39.0983 [Ar]4s 4.3407	Ca Calcium 40.078 [Ar]4s ² 6.1132	Sc Scandium 44.955910 [Ar]3d4s ² 6.5615	Ti Titanium 47.867 [Ar]3d24s ² 6.8281	V Vanadium 50.9415 [Ar]3d34s ² 6.7462	Cr Chromium 51.9961 [Ar]3d54s 6.7665	Mn Manganese 54.938049 [Ar]3d54s ² 7.4340	Fe Iron 55.845 [Ar]3d64s ² 7.9024	Co Cobalt 58.933200 [Ar]3d74s ² 7.8810	Ni Nickel 58.6934 [Ar]3d84s ² 7.6398	Cu Copper 63.546 [Ar]3d104s 7.7264	Zn Zinc 65.409 [Ar]3d104s ² 9.3942	Ga Gallium 69.732 [Ar]3d104s24p 5.9993	Ge Germanium 72.64 [Ar]3d104s24p2 7.8994	As Arsenic 74.92160 [Ar]3d104s24p3 9.7886	Se Selenium 78.96 [Ar]3d104s24p4 9.7524	Br Bromine 79.904 [Ar]3d104s24p5 11.8138	Kr Krypton 83.798 [Ar]3d104s24p6 13.9996		
	5	Rb Rubidium 85.4678 [Kr]5s 4.1771	Sr Strontium 87.62 [Kr]5s ² 5.6949	Y Yttrium 88.90585 [Kr]4d5s ² 6.2173	Zr Zirconium 91.224 [Kr]4d25s ² 6.6339	Nb Niobium 92.90638 [Kr]4d45s 6.7589	Mo Molybdenum 95.94 [Kr]4d5s 7.0924	Tc Technetium (98) [Kr]4d5s ² 7.28	Ru Ruthenium 101.07 [Kr]4d75s 7.3605	Rh Rhodium 102.90550 [Kr]4d85s 7.4589	Pd Palladium 106.42 [Kr]4d10 8.3369	Ag Silver 107.8682 [Kr]4d105s 7.5762	Cd Cadmium 112.411 [Kr]4d105s ² 8.9938	In Indium 114.818 [Kr]4d105s25p 5.7864	Sn Tin 118.710 [Kr]4d105s25p2 7.3439	Sb Antimony 121.760 [Kr]4d105s25p3 8.6084	Te Tellurium 127.60 [Kr]4d105s25p4 9.0096	I Iodine 126.90447 [Kr]4d105s25p5 10.4513	Xe Xenon 131.293 [Kr]4d105s25p6 12.1298		
	6	Cs Cesium 132.90545 [Xe]6s 3.8939	Ba Barium 137.327 [Xe]6s ² 5.2117		Hf Hafnium 178.49 [Xe]4f145d26s ² 6.8251	Ta Tantalum 180.9479 [Xe]4f145d36s ² 7.5496	W Tungsten 183.84 [Xe]4f145d46s ² 7.8640	Re Rhenium 186.207 [Xe]4f145d56s ² 7.8335	Os Osmium 190.23 [Xe]4f145d66s ² 8.4382	Ir Iridium 192.217 [Xe]4f145d76s ² 8.9670	Pt Platinum 195.078 [Xe]4f145d96s 8.9588	Au Gold 196.96655 [Xe]4f145d106s 9.2255	Hg Mercury 200.59 [Xe]4f145d106s ² 10.4375	Tl Thallium 204.3833 [Hg]6p 6.1082	Pb Lead 207.2 [Hg]6p ² 7.4167	Bi Bismuth 208.98038 [Hg]6p ³ 7.2855	Po Polonium (209) [Hg]6p ⁴ 8.414	At Astatine (210) [Hg]6p ⁵	Rn Radon (222) [Hg]6p ⁶ 10.7485		
	7	Fr Francium (223) [Rn]7s 4.0727	Ra Radium (226) [Rn]7s ² 5.2784		Rf Rutherfordium (261) [Rn]5f146d27s2? 6.0 ?	Db Dubnium (262)	Sg Seaborgium (266)	Bh Bohrium (264)	Hs Hassium (277)	Mt Meitnerium (268)	Uun Ununnilium (281)	Uuu Unununium (272)	Uub Ununbium (285)								

Atomic Number: 26
Ground-State Level: 5D₄

Symbol: **Fe**

Name: **Iron**

Atomic Weight: 55.845

Ground-state Configuration: [Ar]3d⁶4s²

Ionisation Energy (eV): 7.9024

[†]Based upon ¹²C.
() indicates the mass number of the most stable isotope.

		57 La Lanthanum 138.9055 [Xe]5d6s ² 5.5769	58 Ce Cerium 140.116 [Xe]4f5d6s ² 5.5387	59 Pr Praseodymium 140.90765 [Xe]4f6s ² 5.473	60 Nd Neodymium 144.24 [Xe]4f6s ² 5.5250	61 Pm Promethium (145) [Xe]4f6s ² 5.582	62 Sm Samarium 150.36 [Xe]4f6s ² 5.6437	63 Eu Europium 151.964 [Xe]4f7s ² 5.6704	64 Gd Gadolinium 157.25 [Xe]4f75d6s ² 6.1498	65 Tb Terbium 158.92534 [Xe]4f9s ² 5.8638	66 Dy Dysprosium 162.500 [Xe]4f10s ² 5.9389	67 Ho Holmium 164.93032 [Xe]4f11s ² 6.0215	68 Er Erbium 167.259 [Xe]4f12s ² 6.1077	69 Tm Thulium 168.93421 [Xe]4f13s ² 6.1843	70 Yb Ytterbium 173.04 [Xe]4f14s ² 6.2542	71 Lu Lutetium 174.967 [Xe]4f145d6s ² 5.4259
		Lanthanides														
		Actinides														
		89 Ac Actinium (227) [Rn]6d7s ² 5.17	90 Th Thorium 232.0381 [Rn]6d27s ² 6.3067	91 Pa Protactinium 231.03588 [Rn]5f26d7s ² 5.89	92 U Uranium 238.02891 [Rn]5f36d7s ² 6.1941	93 Np Neptunium (237) [Rn]5f46d7s ² 6.2657	94 Pu Plutonium (244) [Rn]5f67s ² 6.0260	95 Am Americium (243) [Rn]5f7s ² 5.9738	96 Cm Curium (247) [Rn]5f76d7s ² 5.9914	97 Bk Berkelium (247) [Rn]5f9s ² 6.1979	98 Cf Californium (251) [Rn]5f107s ² 6.2817	99 Es Einsteinium (252) [Rn]5f117s ² 6.42	100 Fm Fermium (257) [Rn]5f127s ² 6.50	101 Md Mendelevium (258) [Rn]5f137s ² 6.58	102 No Nobelium (259) [Rn]5f147s ² 6.65	103 Lr Lawrencium (262) [Rn]5f147s2p? 4.9 ?