

PERIODIC TABLE

Atomic Properties of the Elements

Greyhound
CHROMATOGRAPHY
AND ALLIED CHEMICALS

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.

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ISO 9001 : 2000

ISO GUIDE 17025

ISO GUIDE 34

Solids
 Gases
 Liquids
 Artificially Prepared

	1 IA	H Hydrogen 1.00794 1s 13.5984		2 IIA	He Helium 4.002602 1s ² 24.5874		13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA		18 VIIIA						
		Li Lithium 6.941 1s ² 2s 5.3917			Be Beryllium 9.012182 1s ² 2s ² 9.3227		B Boron 10.811 1s ² 2s ² 2p 8.2980	C Carbon 12.0107 1s ² 2s ² 2p ² 11.2603	N Nitrogen 14.0067 1s ² 2s ² 2p ³ 14.5341	O Oxygen 15.9994 1s ² 2s ² 2p ⁴ 13.6181	F Fluorine 18.9984032 1s ² 2s ² 2p ⁵ 17.4228	Ne Neon 20.1797 1s ² 2s ² 2p ⁶ 21.5645							
		Na Sodium 22.989770 [Ne]3s 5.1391			Mg Magnesium 24.3050 [Ne]3s ² 7.6462		Al Aluminium 26.981538 [Ne]3s ² 3p 5.9858	Si Silicon 28.0855 [Ne]3s ² 3p ² 8.1517	P Phosphorus 30.973761 [Ne]3s ² 3p ³ 10.4867	S Sulphur 32.065 [Ne]3s ² 3p ⁴ 10.3600	Cl Chlorine 35.453 [Ne]3s ² 3p ⁵ 12.9676	Ar Argon 39.948 [Ne]3s ² 3p ⁶ 15.7596							
		K Potassium 39.0983 [Ar]4s 4.3407			Ca Calcium 40.078 [Ar]4s ² 6.1132		Ga Gallium 69.732 [Ar]3d ¹⁰ 4s ² 4p 5.9993	Ge Germanium 72.64 [Ar]3d ¹⁰ 4s ² 4p ² 7.8994	As Arsenic 74.92160 [Ar]3d ¹⁰ 4s ² 4p ³ 9.7886	Se Selenium 78.96 [Ar]3d ¹⁰ 4s ² 4p ⁴ 9.7524	Br Bromine 79.904 [Ar]3d ¹⁰ 4s ² 4p ⁵ 11.8138	Kr Krypton 83.798 [Ar]3d ¹⁰ 4s ² 4p ⁶ 13.9996							
		Rb Rubidium 85.4678 [Kr]5s 4.1771			Sr Strontium 87.62 [Kr]5s ² 5.6949		Ru Ruthenium 101.07 [Kr]4d ⁷ 5s 7.3605	Rh Rhodium 102.90550 [Kr]4d ⁸ 5s 7.4589	Pd Palladium 106.42 [Kr]4d ¹⁰ 8.3369	Ag Silver 107.8682 [Kr]4d ¹⁰ 5s 7.5762	Cd Cadmium 112.411 [Kr]4d ¹⁰ 5s ² 8.9938	In Indium 114.818 [Kr]4d ¹⁰ 5s ² 5p 5.7864	Sn Tin 118.710 [Kr]4d ¹⁰ 5s ² 5p ² 7.3439	Sb Antimony 121.760 [Kr]4d ¹⁰ 5s ² 5p ³ 8.6084	Te Tellurium 127.60 [Kr]4d ¹⁰ 5s ² 5p ⁴ 9.0096	I Iodine 126.90447 [Kr]4d ¹⁰ 5s ² 5p ⁵ 10.4513	Xe Xenon 131.293 [Kr]4d ¹⁰ 5s ² 5p ⁶ 12.1298		
		Cs Cesium 132.90545 [Xe]6s 3.8939			Ba Barium 137.327 [Xe]6s ² 5.2117		Rf Rutherfordium (261) [Rn]5f ¹⁴ 6d ² 7s ² ? 6.0 ?	Os Osmium 190.23 [Xe]4f ¹⁴ 5d ⁶ 6s ² 8.4382	Ir Iridium 192.217 [Xe]4f ¹⁴ 5d ⁷ 6s ² 8.9670	Pt Platinum 195.078 [Xe]4f ¹⁴ 5d ⁹ 6s 8.9588	Au Gold 196.96655 [Xe]4f ¹⁴ 5d ¹⁰ 6s 9.2255	Hg Mercury 200.59 [Xe]4f ¹⁴ 5d ¹⁰ 6s 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	
		Fr Francium (223) [Rn]7s 4.0727			Ra Radium (226) [Rn]7s ² 5.2784		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 IIA	58 IIIA	59 IIIA	60 IIIA	61 IIIA	62 IIIA	63 IIIA	64 IIIA	65 IIIA	66 IIIA	67 IIIA	68 IIIA	69 IIIA	70 IIIA	71 IIIA
		La Lanthanum 138.9055 [Xe]5d ¹ 6s ² 5.5769	Ce Cerium 140.116 [Xe]4f ¹ 5d ¹ 6s ² 5.5387	Pr Praseodymium 140.90765 [Xe]4f ³ 6s ² 5.473	Nd Neodymium 144.24 [Xe]4f ⁴ 6s ² 5.5250	Pm Promethium (145) [Xe]4f ⁵ 6s ² 5.582	Sm Samarium 150.36 [Xe]4f ⁶ 6s ² 5.6437	Eu Europium 151.964 [Xe]4f ⁷ 6s ² 5.6704	Gd Gadolinium 157.25 [Xe]4f ⁷ 5d ¹ 6s ² 6.1498	Tb Terbium 158.92534 [Xe]4f ⁹ 6s ² 5.8638	Dy Dysprosium 162.500 [Xe]4f ¹⁰ 6s ² 5.9389	Ho Holmium 164.93032 [Xe]4f ¹¹ 6s ² 6.0215	Er Erbium 167.259 [Xe]4f ¹² 6s ² 6.1077	Tm Thulium 168.93421 [Xe]4f ¹³ 6s ² 6.1843	Yb Ytterbium 173.04 [Xe]4f ¹⁴ 6s ² 6.2542	Lu Lutetium 174.967 [Xe]4f ¹⁴ 5d ¹ 6s ² 5.4259
		Ac Actinium (227) [Rn]6d ¹ 7s ² 5.17	Th Thorium 232.0381 [Rn]6d ² 7s ² 6.3067	Pa Protactinium 231.03588 [Rn]5f ² 6d ¹ 7s ² 5.89	U Uranium 238.02891 [Rn]5f ³ 6d ¹ 7s ² 6.1941	Np Neptunium (237) [Rn]5f ⁴ 6d ¹ 7s ² 6.2657	Pu Plutonium (244) [Rn]5f ⁶ 7s ² 6.0260	Am Americium (243) [Rn]5f ⁷ 7s ² 5.9738	Cm Curium (247) [Rn]5f ⁷ 6d ¹ 7s ² 5.9914	Bk Berkelium (247) [Rn]5f ⁹ 7s ² 6.1979	Cf Californium (251) [Rn]5f ¹⁰ 7s ² 6.2817	Es Einsteinium (252) [Rn]5f ¹¹ 7s ² 6.42	Fm Fermium (257) [Rn]5f ¹² 7s ² 6.50	Md Mendelevium (258) [Rn]5f ¹³ 7s ² 6.58	No Nobelium (259) [Rn]5f ¹⁴ 7s ² 6.65	Lr Lawrencium (262) [Rn]5f ¹⁴ 7s ² 7p ¹ ? 4.9 ?