

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.

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

Visit us at greyhoundchrom.com

ISO 9001 : 2000

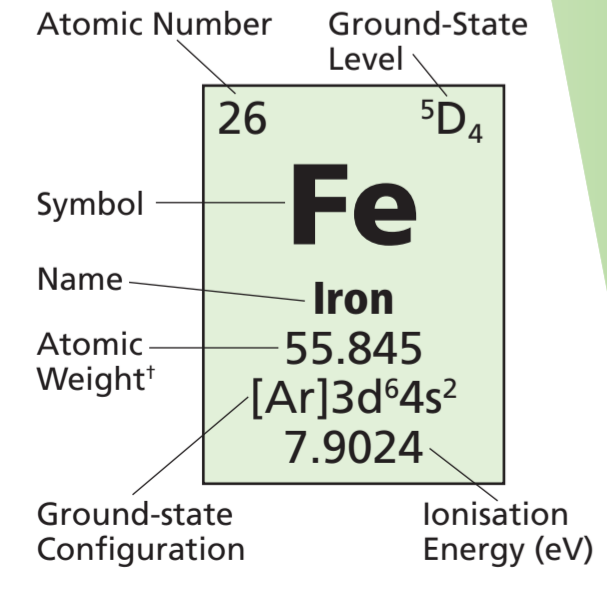
ISO GUIDE 17025

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		18 VIIIA
		3 Li Lithium 6.941 1s ² 2s 5.3917	4 Be Beryllium 9.012182 1s ² 2s ² 9.3227				
		11 Na Sodium 22.989770 [Ne]3s 5.1391	12 Mg Magnesium 24.3050 [Ne]3s ² 7.6462				
		19 K Potassium 39.0983 [Ar]4s 4.3407	20 Ca Calcium 40.078 [Ar]4s ² 6.1132	3 IIIB	4 IVB	5 VB	6 VIB
		25 Mn Manganese 54.938049 [Ar]3d ⁵ 4s ² 7.4340	26 Fe Iron 55.845 [Ar]3d ⁶ 4s ² 7.9024	27 Co Cobalt 58.933200 [Ar]3d ⁷ 4s ² 7.8810	28 Ni Nickel 58.6934 [Ar]3d ⁸ 4s ² 7.6398	29 Cu Copper 63.546 [Ar]3d ¹⁰ 4s 7.7264	30 Zn Zinc 65.409 [Ar]3d ¹⁰ 4s ² 9.3942
		37 Rb Rubidium 85.4678 [Kr]5s 4.1771	38 Sr Strontium 87.62 [Kr]5s ² 5.6949	39 Y Yttrium 88.90585 [Kr]4d ¹ 5s ² 6.2173	40 Zr Zirconium 91.224 [Kr]4d ² 5s ² 6.6339	41 Nb Niobium 92.90638 [Kr]4d ⁴ 5s 6.7589	42 Mo Molybdenum 95.94 [Kr]4d ⁵ 5s 7.0924
		55 Cs Cesium 132.90545 [Xe]6s 3.8939	56 Ba Barium 137.327 [Xe]6s ² 5.2117	72 Hf Hafnium 178.49 [Xe]4f ¹⁴ 5d ² 6s ² 6.8251	73 Ta Tantalum 180.9479 [Xe]4f ¹⁴ 5d ³ 6s ² 7.5496	74 W Tungsten 183.84 [Xe]4f ¹⁴ 5d ⁴ 6s ² 7.8640	75 Re Rhenium 186.207 [Xe]4f ¹⁴ 5d ⁵ 6s ² 7.8335
		87 Fr Francium (223) [Rn]7s 4.0727	88 Ra Radium (226) [Rn]7s ² 5.2784	104 Rf Rutherfordium (261) [Rn]5f ¹⁴ 6d ² 7s ² ? 6.0 ?	105 Db Dubnium (262)	106 Sg Seaborgium (266)	107 Bh Bohrium (264)



¹Based upon ¹²C.
() indicates the mass number of the most stable isotope.

Lanthanides

Actinides

	57 La Lanthanum 138.9055 [Xe]5d ¹ 6s ² 5.5769	58 Ce Cerium 140.116 [Xe]4f ¹ 5d ¹ 6s ² 5.5387	59 Pr Praseodymium 140.90765 [Xe]4f ³ 6s ² 5.473	60 Nd Neodymium 144.24 [Xe]4f ⁴ 6s ² 5.5250	61 Pm Promethium (145) [Xe]4f ⁵ 6s ² 5.582	62 Sm Samarium 150.36 [Xe]4f ⁶ 6s ² 5.6437	63 Eu Europium 151.964 [Xe]4f ⁷ 6s ² 5.6704	64 Gd Gadolinium 157.25 [Xe]4f ⁷ 5d ¹ 6s ² 6.1498	65 Tb Terbium 158.92534 [Xe]4f ⁹ 6s ² 5.8638	66 Dy Dysprosium 162.500 [Xe]4f ¹⁰ 6s ² 5.9389	67 Ho Holmium 164.93032 [Xe]4f ¹¹ 6s ² 6.0215	68 Er Erbium 167.259 [Xe]4f ¹² 6s ² 6.1077	69 Tm Thulium 168.93421 [Xe]4f ¹³ 6s ² 6.1843	70 Yb Ytterbium 173.04 [Xe]4f ¹⁴ 6s ² 6.2542	71 Lu Lutetium 174.967 [Xe]4f ¹⁴ 5d ¹ 6s ² 5.4259
	89 Ac Actinium (227) [Rn]6d ¹ 7s ² 5.17	90 Th Thorium 232.0381 [Rn]6d ² 7s ² 6.3067	91 Pa Protactinium 231.03588 [Rn]5f ² 6d ¹ 7s ² 5.89	92 U Uranium 238.02891 [Rn]5f ³ 6d ¹ 7s ² 6.1941	93 Np Neptunium (237) [Rn]5f ⁴ 6d ¹ 7s ² 6.2657	94 Pu Plutonium (244) [Rn]5f ⁶ 7s ² 6.0260	95 Am Americium (243) [Rn]5f ⁷ 7s ² 5.9738	96 Cm Curium (247) [Rn]5f ⁸ 6d ¹ 7s ² 5.9914	97 Bk Berkelium (247) [Rn]5f ⁹ 7s ² 6.1979	98 Cf Californium (251) [Rn]5f ¹⁰ 7s ² 6.2817	99 Es Einsteinium (252) [Rn]5f ¹¹ 7s ² 6.42	100 Fm Fermium (257) [Rn]5f ¹² 7s ² 6.50	101 Md Mendelevium (258) [Rn]5f ¹³ 7s ² 6.58	102 No Nobelium (259) [Rn]5f ¹⁴ 7s ² 6.65	103 Lr Lawrencium (262) [Rn]5f ¹⁴ 7s ² 7p ¹ ? 4.9 ?