

PERIODIC TABLE of the ELEMENTS



The Periodic Table of Chemical Elements is one of the most significant achievements in science, capturing the essence not only of chemistry, but also of physics and biology. It is a unique tool, enabling scientist to predict the appearance and properties of matter on the Earth and in the rest of the Universe.

2019 is the 150th anniversary since Dmitry Mendeleev discovered the Periodic System and has been proclaimed the «International Year of the Periodic Table of Chemical Elements» (IYPT2019).

1 IA 1 H Hydrogen 1.00794	2 IIA 4 Be Beryllium 9.012182											13 IIIA 5 B Boron 10.811	14 IVA 6 C Carbon 12.011	15 VA 7 N Nitrogen 14.00674	16 VIA 8 O Oxygen 15.9994	17 VIIA 9 F Fluorine 18.9984032	18 VIIIA 10 Ne Neon 20.1797
2 3 Li Lithium 6.941	12 Mg Magnesium 24.305											31 Al Aluminium 26.981539	14 Si Silicon 28.0855	15 P Phosphorus 30.973762	16 S Sulfur 32.066	17 Cl Chlorine 35.4527	18 Ar Argon 39.948
3 11 Na Sodium 22.98977	20 Ca Calcium 40.078	21 Sc Scandium 44.95591	22 Ti Titanium 47.867	23 V Vanadium 50.9415	24 Cr Chromium 51.9961	25 Mn Manganese 54.93805	26 Fe Iron 55.845	27 Co Cobalt 58.9332	28 Ni Nickel 58.6934	29 Cu Copper 63.546	30 Zn Zinc 65.39	31 Ga Gallium 69.723	32 Ge Germanium 72.61	33 As Arsenic 74.9216	34 Se Selenium 78.96	35 Br Bromine 79.904	36 Kr Krypton 83.80
4 19 K Potassium 39.0983	38 Sr Strontium 87.62	39 Y Yttrium 88.90585	40 Zr Zirconium 91.224	41 Nb Niobium 92.90638	42 Mo Molybdenum 95.94	43 Tc Technetium 98	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.9055	46 Pd Palladium 106.42	47 Ag Silver 107.8682	48 Cd Cadmium 112.411	49 In Indium 114.818	50 Sn Tin 118.71	51 Sb Antimony 121.76	52 Te Tellurium 127.6	53 I Iodine 126.90447	54 Xe Xenon 131.293
5 37 Rb Rubidium 85.4678	55 Cs Cesium 132.90545	56 Ba Barium 137.327	72 Hf Hafnium 178.49	73 Ta Tantalum 180.9479	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.22	78 Pt Platinum 195.078	79 Au Gold 196.96654	80 Hg Mercury 200.59	81 Tl Thallium 204.3833	82 Pb Lead 207.2	83 Bi Bismuth 208.98038	84 Po Polonium 209	85 At Astatine 210	86 Rn Radon 222
6 55 Fr Francium 223	87 Ra Radium 226	89-103 Lanthanide Series	104 Rf Rutherfordium 267	105 Db Dubnium 268	106 Sg Seaborgium 269	107 Bh Bohrium 270	108 Hs Hassium 269	109 Mt Meitnerium 278	110 Ds Darmstadtium 281	111 Rg Roentgenium 281	112 Cn Copernicium 285	113 Uut Ununtrium 286	114 Fl Flerovium 289	115 Uup Ununpentium 289	116 Lv Livermorium 293	117 Uus Ununseptium 294	118 Uuo Ununoctium 294
7 119 Uue Ununennium	120 Ubn Unbinilium	57-71 Lanthanide Series	104 Rf Rutherfordium 267	105 Db Dubnium 268	106 Sg Seaborgium 269	107 Bh Bohrium 270	108 Hs Hassium 269	109 Mt Meitnerium 278	110 Ds Darmstadtium 281	111 Rg Roentgenium 281	112 Cn Copernicium 285	113 Uut Ununtrium 286	114 Fl Flerovium 289	115 Uup Ununpentium 289	116 Lv Livermorium 293	117 Uus Ununseptium 294	118 Uuo Ununoctium 294
		Actinide Series	89 Ac Actinium 227	90 Th Thorium 232.0381	91 Pa Protactinium 231.03588	92 U Uranium 238.0289	93 Np Neptunium 237	94 Pu Plutonium 244	95 Am Americium 243	96 Cm Curium 247	97 Bk Berkelium 247	98 Cf Californium 251	99 Es Einsteinium 252	100 Fm Fermium 257	101 Md Mendelevium 258	102 No Nobelium 259	103 Lr Lawrencium 266

Atomic Number
Symbol
Name
Atomic Mass

1
H
Hydrogen 1.008

- Alkali Metal
- Poor Metal
- Halogen
- Actinide
- probable Alkali Metal
- Alkaline Earth
- Metalloids
- Noble Gas
- probable Poor Metal
- probable Metalloids
- Transition Metal
- Non metal
- Lanthanide
- probable Alkaline Earth

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81 Tl Thallium 204.3833	82 Pb Lead 207.2	83 Bi Bismuth 208.98038	84 Po Polonium 209	85 At Astatine 210	86 Rn Radon 222
113 Uut Ununtrium 286	114 Fl Flerovium 289	115 Uup Ununpentium 289	116 Lv Livermorium 293	117 Uus Ununseptium 294	118 Uuo Ununoctium 294



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ITALIA
CARLO ERBA Reagents S.r.l.
Via Raffaele Merendi 22
20010 Cornaredo (MI)
Servizio Clienti
servizioclienticer@dgroup.it
Tel.: +39 02 93 99 190
Fax: +39 02 93 99 10 01

FRANCE
CARLO ERBA Reagents SAS
Chaussée du Vexin,
Parc d'affaire des Portes
27106 Val de Reuil
Service Client
serviceclient@cer.dgroup.it
Tél.: +33 2 32 09 20 00
Fax: +33 2 32 59 20 11

ESPAÑA
CARLO ERBA Reagents S.A.
Calle Filadors 35, 6ª
Planta Puerta 5
08208 Sabadell (BCN)
Servicio Cliente
serviciocliente@cer.dgroup.it
Tel.: +34 93 693 37 35
Fax: +34 93 724 31 68

ALL OTHER COUNTRIES
Customer Service
export@cer.dgroup.it
Ph.: +33 2 32 09 20 00
Fax: +33 2 32 59 11 89