

chem Escape!

**GAME
OVER**

WIN

**GAME
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WIN

Periodic Table of the Elements

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| <h1>Periodic Table of the Elements</h1> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>Atomic Number</div><div>Boiling Point</div><div>Symbol</div><div>Name</div><div>Atomic Mass</div></div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Normal boiling points are in °C. SP = Triple Point Pressure is listed if not 1 atm. Allotrope is listed if more than one allotrope.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><td colspan="2">1 1A 1A</td><td colspan="2">2 2A 2A</td><td colspan="10"></td><td colspan="2">18 VIII 8A</td></tr><tr><td colspan="2">1 H Hydrogen 1.008 -252.762</td><td colspan="2">2 He Helium 4.003 -268.93</td><td colspan="14"></td></tr><tr><td colspan="2">3 Li Lithium 6.941 1342</td><td colspan="2">4 Be Beryllium 9.012 2471</td><td colspan="14"></td><td colspan="2">13 III 3A</td><td colspan="2">14 IV 4A</td><td colspan="2">15 V 5A</td><td colspan="2">16 VI 6A</td><td colspan="2">17 VII 7A</td><td colspan="2">18 VIII 8A</td></tr><tr><td colspan="2">11 Na Sodium 22.990 882.940</td><td colspan="2">12 Mg Magnesium 24.305 1090</td><td colspan="2">3 III 3B</td><td colspan="2">4 IV 4B</td><td colspan="2">5 V 5B</td><td colspan="2">6 VI 6B</td><td colspan="2">7 VII 7B</td><td colspan="2">8 VIII 8</td><td colspan="2">9 VIII 8</td><td colspan="2">10 VIII 8</td><td colspan="2">11 IB 1B</td><td colspan="2">12 IIB 2B</td><td colspan="2">13 III 3A</td><td colspan="2">14 IV 4A</td><td 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Lanthanide Series

Actinide Series

| | | | | | | | | | | | | | | |
|--|--|---|---|---|--|--|--|--|---|---|--|--|---|---|
| 57 La Lanthanum 138.906 3464 | 58 Ce Cerium 140.115 3443 | 59 Pr Praseodymium 140.908 3520 | 60 Nd Neodymium 144.24 3074 | 61 Pm Promethium 144.913 3000 | 62 Sm Samarium 150.36 1794 | 63 Eu Europium 151.966 1529 | 64 Gd Gadolinium 157.25 3273 | 65 Tb Terbium 158.925 3230 | 66 Dy Dysprosium 162.50 2567 | 67 Ho Holmium 164.930 2700 | 68 Er Erbium 167.26 2868 | 69 Tm Thulium 168.934 1950 | 70 Yb Ytterbium 173.04 1196 | 71 Lu Lutetium 174.967 3402 |
| 89 Ac Actinium 227.028 3198 | 90 Th Thorium 232.038 4788 | 91 Pa Protactinium 231.036 4027 | 92 U Uranium 238.029 4131 | 93 Np Neptunium 237.048 4174 | 94 Pu Plutonium 244.064 3228 | 95 Am Americium 243.061 2011 | 96 Cm Curium 247.070 3100 | 97 Bk Berkelium 247.070 2627 | 98 Cf Californium 251.080 unknown | 99 Es Einsteinium [254] unknown | 100 Fm Fermium 257.095 unknown | 101 Md Mendelevium 258.1 unknown | 102 No Nobelium 259.101 unknown | 103 Lr Lawrencium [262] unknown |

Alkali Metal

Alkaline Earth

Transition Metal

Basic Metal

Semimetal

Nonmetal

Halogen

Noble Gas

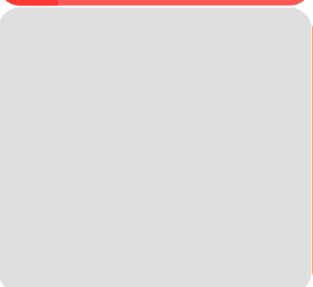
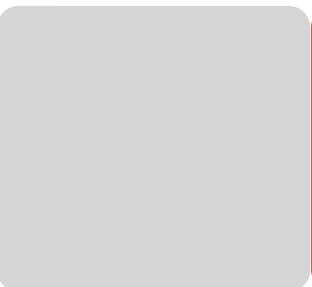
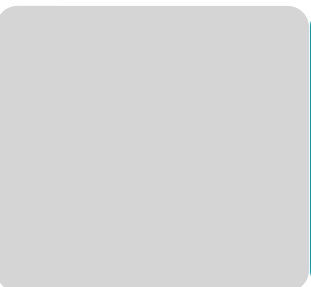
Lanthanide

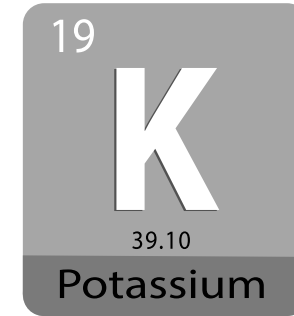
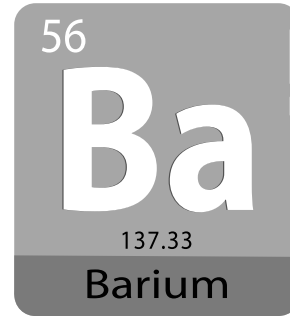
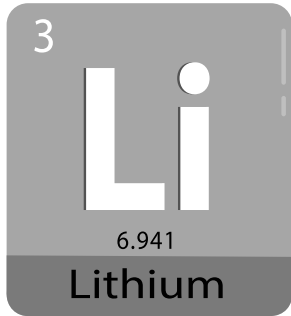
Actinide

Normal boiling points are in °C.
SP = Triple Point
Pressure is listed if not 1 atm.
Allotrope is listed if more than one allotrope.

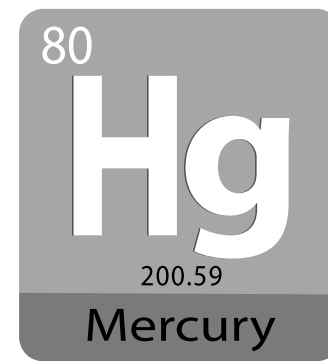
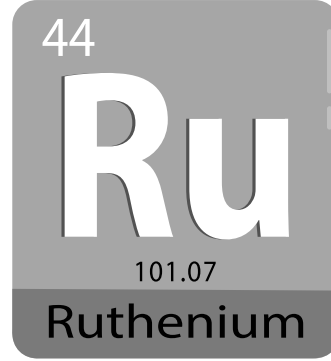
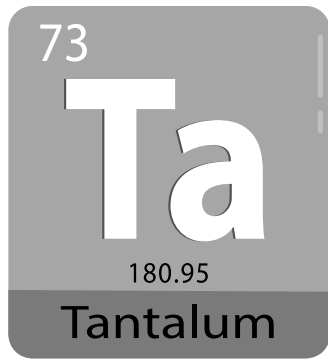
Atomic Number
Boiling Point
Symbol
Name
Atomic Mass

| | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--------------------------------|----------------------------------|----------------------------------|--------------------------------|----------------------------------|--------------------------------|---------------------------------|----------------------------------|------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|---------------------------------|------------------------------------|-----------------------------------|------------------------------------|-----------------------------------|--------------------------------|----------------------------|-------------------------------|----------------------------|
| 1 H 1.008 Hydrogen | | | | | | | | | | | | | | | | | 2 He 4.003 Helium | | | | |
| 3 Li 6.941 Lithium | 4 Be 9.012 Beryllium | | | | | | | | | | | | | | | 5 B 10.81 Boron | 6 C 12.01 Carbon | 7 N 14.01 Nitrogen | 8 O 16.00 Oxygen | 9 F 19.00 Fluorine | 10 Ne 20.18 Neon |
| 11 Na 22.99 Sodium | 12 Mg 24.31 Magnesium | | | | | | | | | | | | | | | 13 Al 26.98 Aluminium | 14 Si 28.09 Silicon | 15 P 30.97 Phosphorus | 16 S 32.07 Sulfur | 17 Cl 35.45 Chlorine | 18 Ar 39.95 Argon |
| 19 K 39.10 Potassium | 20 Ca 40.08 Calcium | 21 Sc 44.96 Scandium | 22 Ti 47.87 Titanium | 23 V 50.94 Vanadium | 24 Cr 52.00 Chromium | 12 Mg 24.31 Magnesium | 26 Fe 55.84 Iron | 27 Co 58.93 Cobalt | 28 Ni 58.69 Nickel | 29 Cu 63.55 Copper | 30 Zn 65.41 Zinc | 31 Ga 69.72 Gallium | 32 Ge 72.64 Germanium | 33 As 74.92 Arsenic | 34 Se 78.96 Selenium | 35 Br 79.90 Bromine | 36 Kr 83.80 Krypton | | | | |
| 37 Rb 85.47 Rubidium | 38 Sr 87.62 Strontium | 39 Y 88.91 Yttrium | 40 Zr 91.22 Zirconium | 41 Nb 92.91 Niobium | 42 Mo 95.94 Molybdenum | 43 Tc [98] Technetium | 44 Ru 101.07 Ruthenium | 45 Rh 102.91 Rhodium | 46 Pd 106.42 Palladium | 47 Ag 107.87 Silver | 48 Cd 112.41 Cadmium | 49 In 114.82 Indium | 50 Sn 118.71 Tin | 51 Sb 121.76 Antimony | 52 Te 127.60 Tellurium | 53 I 126.90 Iodine | 54 Xe 131.29 Xenon | | | | |
| 55 Cs 132.91 Caesium | 56 Ba 137.33 Barium | 71 Lu 174.97 Lutetium | 72 Hf 178.49 Hafnium | 73 Ta 180.95 Tantalum | 74 W 183.84 Tungsten | 75 Re 186.21 Rhenium | 76 Os 190.23 Osmium | 77 Ir 192.22 Iridium | 78 Pt 195.08 Platinum | 79 Au 196.97 Gold | 80 Hg 200.59 Mercury | 81 Tl 204.38 Thallium | 82 Pb 207.2 Lead | 83 Bi 208.98 Bismuth | 84 Po [209] Polonium | 85 At [210] Astatine | 86 Rn [222] Radon | | | | |
| 87 Fr [223] Francium | 88 Ra [226] Radium | 103 Lr [262] Lawrencium | 104 Ru 101.07 Ruthenium | 105 Db [268] Dubnium | 106 Sg [269] Seaborgium | 107 Bh [270] Bohrium | 108 Hs [269] Hassium | 109 Mt [278] Meitnerium | 110 Ds [281] Darmstadtium | 111 Rg [282] Roentgenium | 112 Cn [285] Copernicium | 113 Uut [284] Ununtrium | 114 Fl [289] Flerovium | 115 Uup [288] Ununpentium | 116 Lv [293] Livermorium | 117 Uus [294] Ununseptium | 118 Uuo [294] Ununoctium | | | | |

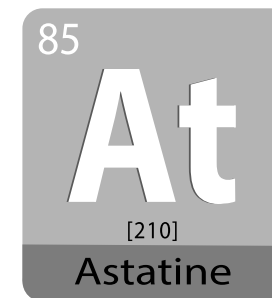
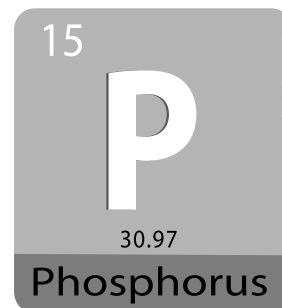




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|---|--|--------------------------------------|---|---------------------------------------|--------------------------------------|---|---|--|--|
| 21 Sc 44.96 Scandium | 22 Ti 47.87 Titanium | 23 V 50.94 Vanadium | 24 Cr 52.00 Chromium | 12 Mg 24.31 Magnesium | 26 Fe 55.84 Iron | 27 Co 58.93 Cobalt | 28 Ni 58.69 Nickel | 29 Cu 63.55 Copper | 30 Zn 65.41 Zinc |
| 39 Y 88.91 Yttrium | 40 Zr 91.22 Zirconium | 41 Nb 92.91 Niobium | 42 Mo 95.94 Molybdenum | 43 Tc [98] Technetium | | 45 Rh 102.91 Rhodium | 46 Pd 106.42 Palladium | 47 Ag 107.87 Silver | 48 Cd 112.41 Cadmium |
| 71 Lu 174.97 Lutetium | 72 Hf 178.49 Hafnium | | 74 W 183.84 Tungsten | 75 Re 186.21 Rhenium | 76 Os 190.23 Osmium | 77 Ir 192.22 Iridium | 78 Pt 195.08 Platinum | 79 Au 196.97 Gold | |
| 103 Lr [262] Lawrencium | 44 Ru 101.07 Ruthenium | 105 Db [268] Dubnium | 106 Sg [269] Seaborgium | 107 Bh [270] Bohrium | 108 Hs [269] Hassium | 109 Mt [278] Meitnerium | 110 Ds [281] Darmstadtium | 111 Rg [282] Roentgenium | 112 Cn [285] Copernicium |



| | | | | | | | |
|---|--|---|--|---|--|--|--|
| 2 He Helium 4.003 | 9 F Fluorine 19.00 | 10 Ne Neon 20.18 | 17 Cl Chlorine 35.45 | 18 Ar Argon 39.95 | 35 Br Bromine 79.90 | 53 I Iodine 126.90 | 86 Rn Radon [222] |
| 5 B Boron 10.81 | 6 C Carbon 12.01 | 7 N Nitrogen 14.01 | 8 O Oxygen 16.00 | 16 S Sulfur 32.07 | 34 Se Selenium 78.96 | 52 Te Tellurium 127.60 | 84 Po Polonium [209] |
| 13 Al Aluminium 26.98 | | | | | 33 As Arsenic 74.92 | 51 Sb Antimony 121.76 | 83 Bi Bismuth 208.98 |
| 31 Ga Gallium 69.72 | 32 Ge Germanium 72.64 | 33 As Arsenic 74.92 | 34 Se Selenium 78.96 | 35 Br Bromine 79.90 | 53 I Iodine 126.90 | 54 Xe Xenon 131.29 | 86 Rn Radon [222] |
| 49 In Indium 114.82 | 50 Sn Tin 118.71 | 51 Sb Antimony 121.76 | 52 Te Tellurium 127.60 | 53 I Iodine 126.90 | 54 Xe Xenon 131.29 | 86 Rn Radon [222] | 81 Tl Thallium 204.38 |
| 81 Tl Thallium 204.38 | 82 Pb Lead 207.2 | 83 Bi Bismuth 208.98 | 84 Po Polonium [209] | | | | 82 Pb Lead 207.2 |
| 113 Uut Ununtrium (113) | 114 Fl Flerovium [289] | 115 Uup Ununpentium (115) | 116 Lv Livermorium [293] | 117 Uus Ununseptium (117) | 118 Uuo Ununoctium (118) | | 114 Fl Flerovium [289] |



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