

Das Periodensystem der Elemente

Haupt -

gruppen

Atommmasse in u →

27,0

Ordnungszahl
(Protonenzahl) →

13 Al

← Elementsymbol

13 IIIA 14 IVA 15 VA 16 VIA 17 VIIA 18 VIIIA

fest flüssig gasförmig radioaktiv

| | | | | | | | | | | | | | | | | | | | |
|---|----------------|----------------|---------------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|---|
| 1 | 1,0 1 H | | | | | | | | | | | | | | | | 4,0 2 He | 1 | |
| 2 | 6,9 3 Li | 9,0 4 Be | | | | | | | | | | | 10,8 5 B | 12,0 6 C | 14,0 7 N | 16,0 8 O | 19,0 9 F | 20,2 10 Ne | 2 |
| 3 | 23,0 11 Na | 24,3 12 Mg | 3 IIIB | 4 IVB | 5 VB | 6 VIB | 7 VIIB | 8 VIIIB | 9 VIIIB | 10 VIIIB | 11 IB | 12 IIB | 27,0 13 Al | 28,1 14 Si | 31,0 15 P | 32,1 16 S | 35,5 17 Cl | 39,9 18 Ar | 3 |
| 4 | 39,1 19 K | 40,1 20 Ca | | 47,9 22 Ti | 50,9 23 V | 52,0 24 Cr | 54,9 25 Mn | 55,8 26 Fe | 58,9 27 Co | 58,7 28 Ni | 63,5 29 Cu | 65,4 30 Zn | 69,7 31 Ga | 72,6 32 Ge | 74,9 33 As | 79,0 34 Se | 79,9 35 Br | 83,8 36 Kr | 4 |
| 5 | 85,5 37 Rb | 87,6 38 Sr | 88,9 39 Y | 91,2 40 Zr | 92,9 41 Nb | 95,9 42 Mo | 99 43 Tc | 101,1 44 Ru | 102,9 45 Rh | 106,4 46 Pd | 107,9 47 Ag | 112,4 48 Cd | 114,8 49 In | 118,7 50 Sn | 121,8 51 Sb | 127,6 52 Te | 126,9 53 I | 131,3 54 Xe | 5 |
| 6 | 132,9 55 Cs | 137,3 56 Ba | 57 bis 71 La-Lu | 178,5 72 Hf | 180,9 73 Ta | 183,8 74 W | 186,2 75 Re | 190,2 76 Os | 192,2 77 Ir | 195,1 78 Pt | 197,0 79 Au | 200,6 80 Hg | 204,4 81 Tl | 207,2 82 Pb | 209,0 83 Bi | 209 84 Po | 210 85 At | 222 86 Rn | 6 |
| 7 | 223 87 Fr | 226 88 Ra | 89 bis 103 Ac-Lr | 261 104 Rf | 262 105 Db | 263 106 Sg | 262 107 Bh | 265 108 Hs | 268 109 Mt | 269 110 Uun | 272 111 Uuu | 277 112 Uub | | 289 114 Uuq | | 289 116 Uuh | | 293 118 Uuo | 7 |

Nebengruppen

| | | | | | | | | | | | | | | | |
|-------------|----------------|----------------|----------------|----------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Lanthanoide | 138,9 57 La | 140,1 58 Ce | 140,9 59 Pr | 144,2 60 Nd | 147 61 Pm | 150,4 62 Sm | 152,0 63 Eu | 157,3 64 Gd | 158,9 65 Tb | 162,5 66 Dy | 164,9 67 Ho | 167,3 68 Er | 168,9 69 Tm | 173,0 70 Yb | 175,0 71 Lu |
| Actinoide | 227 89 Ac | 232 90 Th | 231 91 Pa | 238 92 U | 237 93 Np | 244 94 Pu | 243 95 Am | 247 96 Cm | 247 97 Bk | 251 98 Cf | 252 99 Es | 257 100 Fm | 258 101 Md | 259 102 No | 260 103 Lr |

| | | | | | | | |
|-------------|----|-------------|----|---------------|----|-------------|----|
| Actinium | Ac | Europium | Eu | Natrium | Na | Selen | Se |
| Aluminium | Al | Fermium | Fm | Neodym | Nd | Silber | Ag |
| Americium | Am | Fluor | F | Neon | Ne | Silicium | Si |
| Antimon | Sb | Francium | Fr | Neptunium | Np | Stickstoff | N |
| Argon | Ar | Gadolinium | Gd | Nickel | Ni | Strontium | Sr |
| Arsen | As | Gallium | Ga | Niob | Nb | Tantal | Ta |
| Astat | At | Germanium | Ge | Nobelium | No | Technetium | Tc |
| Barium | Ba | Gold | Au | Osmium | Os | Tellur | Te |
| Berkelium | Bk | Hafnium | Hf | Palladium | Pd | Terbium | Tb |
| Beryllium | Be | Hassium | Hs | Phosphor | P | Thallium | Tl |
| Bismut | Bi | Helium | He | Platin | Pt | Thorium | Th |
| Blei | Pb | Holmium | Ho | Plutonium | Pu | Thulium | Tm |
| Bohrium | Bh | Indium | In | Polonium | Po | Titan | Ti |
| Bor | B | Iod | I | Praseodym | Pr | Uran | U |
| Brom | Br | Iridium | Ir | Promethium | Pm | Vanadium | V |
| Cadmium | Cd | Kalium | K | Protactinium | Pa | Wasserstoff | H |
| Cäsium | Cs | Kobalt | Co | Quecksilber | Hg | Wismut | Bi |
| Calcium | Ca | Kohlenstoff | C | Radium | Ra | Wolfram | W |
| Californium | Cf | Krypton | Kr | Radon | Rn | Xenon | Xe |
| Cer | Ce | Kupfer | Cu | Rhenium | Re | Ytterbium | Yb |
| Chlor | Cl | Lanthan | La | Rhodium | Rh | Yttrium | Y |
| Chrom | Cr | Lawrencium | Lr | Rubidium | Rb | Zink | Zn |
| Cobalt | Co | Lithium | Li | Ruthenium | Ru | Zinn | Sn |
| Curium | Cm | Lutetium | Lu | Rutherfordium | Rf | Zirkonium | Zr |
| Dubnium | Db | Magnesium | Mg | Samarium | Sm | | |
| Dysprosium | Dy | Mangan | Mn | Sauerstoff | O | | |
| Einsteinium | Es | Meitnerium | Mt | Scandium | Sc | | |
| Eisen | Fe | Mendelevium | Md | Schwefel | S | | |
| Erbium | Er | Molybdän | Mo | Seaborgium | Sg | | |

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