

Periodensystem der Elemente

<p> Ordnungszahl: 1, 1,008 Normalpotential (Reduktionspotential): 0,00(1), 2,20 E in V mit Oxidationsstufen (n): 1s¹ Symbol: H Name: Wasserstoff Relative Atommasse in u (früher amu): 1,008 Elektronegativität (nach Allred / Rochow): 2,20 Elektronenkonfiguration: 1s¹ Schmelz- / Siedetemperatur in °C: -259 / -253 </p>																																																																																																																					
<p> Legende: ● Nichtmetalle ● Alkalimetalle ● Erdalkalimetalle ● Übergangsmetalle ● Lanthanoide ● Actinoide ● Andere Metalle ● Halbmetalle ● Halogene ○ Edelgase </p>																																																																																																																					
1 1,0079 0,00(1) H Wasserstoff	2 4,0026 5,50 1s ¹ - / -269 He Helium	3 6,94 -3,040(1) 0,97 [He] 2s ¹ 181 / 1347 Li Lithium	4 9,0122 -1,79(2) 1,47 [He] 2s ² 1278 / 2470 Be Beryllium	5 10,81 -0,890(3) 2,01 [He] 2s ² 2p ¹ 2180 B / 3650 B Bor	6 12,011 0,206(4) 2,50 [He] 2s ² 2p ² 3750 G / 4830 C Kohlenstoff	7 14,007 1,45(3) 3,07 [He] 2s ² 2p ³ 210 / 196 N Stickstoff	8 15,999 1,229(-2) 3,50 [He] 2s ² 2p ⁴ 219 / 183 O Sauerstoff	9 18,998 3,053(-1) 4,10 [He] 2s ² 2p ⁵ -220 / 188 F Fluor	10 20,180 4,84 [He] 2s ² 2p ⁶ 249 / 246 Ne Neon	11 22,990 -2,713(1) 1,01 [Ne] 3s ¹ 98 / 883 Na Natrium	12 24,305 -2,356(2) 1,23 [Ne] 3s ² 1278 / 2470 Mg Magnesium	13 26,982 -1,676(3) 1,47 [Ne] 3s ² 3p ¹ 660 / 2467 Al Aluminium	14 28,085 -0,909(4) 1,74 [Ne] 3s ² 3p ² 1412 / 2355 Si Silicium	15 30,974 -0,502(3) 2,06 [Ne] 3s ² 3p ³ 44 / 281 P Phosphor	16 32,06 0,144(-2) 2,44 [Ne] 3s ² 3p ⁴ 113 / 445 B S Schwefel	17 35,45 1,358(-1) 2,83 [Ar] 3s ² 3p ⁵ -101 / -34 Cl Chlor	18 39,948 2,94 [Ne] 3s ² 3p ⁶ -189 / 186 Ar Argon	19 39,098 -2,925(1) 0,91 [Ar] 4s ¹ 98 / 883 K Kalium	20 40,078 -2,84(2) 1,04 [Ar] 4s ² 839 / 1484 Ca Calcium	21 44,956 -2,03(3) 1,20 [Ar] 3d ¹ 4s ² 1541 / 2836 Sc Scandium	22 47,867 -1,63(2) 1,32 [Ar] 3d ² 4s ² 1668 / 3262 Ti Titan	23 50,942 -1,186(2) 1,45 [Ar] 3d ³ 4s ² 1668 / 3262 V Vanadium	24 51,996 -0,913(2) 1,56 [Ar] 3d ³ 4s ¹ 1890 / 2640 Cr Chrom	25 54,938 -1,180(2) 1,60 [Ar] 3d ⁵ 4s ¹ 1244 / 2032 Mn Mangan	26 55,845 -0,440(2) 1,64 [Ar] 3d ⁵ 4s ² 1535 / 2750 6,3 2 0, -2 Fg Eisen	27 58,933 -0,277(2) 1,70 [Ar] 3d ⁶ 4s ² 1495 / 2870 Co Cobalt	28 58,693 -0,257(2) 1,75 [Ar] 3d ⁷ 4s ² 1453 / 2732 Ni Nickel	29 63,546 0,340(2) 1,75 [Ar] 3d ⁸ 4s ¹ 1083 / 2595 Cu Kupfer	30 65,38 -0,763(2) 1,66 [Ar] 3d ¹⁰ 4s ¹ 420 / 907 Zn Zink	31 69,723 -0,529(3) 1,82 [Ar] 3d ¹⁰ 4s ¹ 4p ¹ 20 / 2403 Ga Galium	32 72,63 -0,036(4) 2,02 [Ar] 3d ¹⁰ 4s ¹ 4p ² 937 / 2830 Ge Germanium	33 74,922 0,240(3) 2,20 [Ar] 3d ¹⁰ 4s ¹ 4p ³ 817 / 615 subl. As Arsen	34 78,96 -0,40(-2) 2,48 [Ar] 3d ¹⁰ 4s ¹ 4p ⁴ 217 / 685 Se Selen	35 79,904 1,065(-1) 2,74 [Ar] 3d ¹⁰ 4s ¹ 4p ⁵ -7 / 59 Br Brom	36 83,798 2,94 [Ar] 3d ¹⁰ 4s ¹ 4p ⁶ -157 / -153 Kr Krypton	37 85,468 -2,924(1) 0,89 [Kr] 5s ¹ 39 / 688 Rb Rubidium	38 87,62 -2,89 0,99 [Kr] 5s ² 769 / 1384 Sr Strontium	39 88,906 -2,37(3) 1,11 [Kr] 4d ¹ 5s ² 1522 / 3338 Y Yttrium	40 91,224 -1,55(4) 1,22 [Kr] 4d ² 5s ² 1852 / 4377 Zr Zirkonium	41 92,906 -1,099(3) 1,23 [Kr] 4d ³ 5s ² 2468 / 4928 Nb Niob	42 95,962 -0,20(3) 1,30 [Kr] 4d ⁴ 5s ² 2617 / 4825 Mo Molybdän	43 98,906 0,28(4) 1,36 [Kr] 4d ⁵ 5s ² 2172 / 4877 Tc Technetium	44 101,07 0,623(3) 1,42 [Kr] 4d ⁵ 5s ¹ 2310 / 3900 Ru Ruthenium	45 102,91 -0,76(3) 1,45 [Kr] 4d ⁶ 5s ² 1966 / 2730 Rh Rhodium	46 106,42 0,915(2) 1,3 [Kr] 4d ⁶ 5s ¹ 1554 / 3140 Pd Palladium	47 107,87 0,779(1) 1,42 [Kr] 4d ⁸ 5s ¹ 962 / 2163 Ag Silber	48 112,41 -0,403(2) 1,46 [Kr] 4d ¹⁰ 5s ¹ 321 / 765 Cd Cadmium	49 114,82 -0,343(3) 1,49 [Kr] 4d ¹⁰ 5s ¹ 5p ¹ 157 / 2080 In Indium	50 118,71 -0,137(2) 1,72 [Kr] 4d ¹⁰ 5s ¹ 5p ² 232 B / 2687 Sn Zinn	51 121,76 0,150(3) 1,82 [Kr] 4d ¹⁰ 5s ¹ 5p ³ 631 A / 1635 Sb Antimon	52 127,60 -0,69(-2) 2,01 [Kr] 4d ¹⁰ 5s ¹ 5p ⁴ 450 / 990 Te Tellur	53 126,90 0,536(-1) 2,21 [Kr] 4d ¹⁰ 5s ¹ 5p ⁵ 114 / 184 I Iod	54 131,29 2,40 [Kr] 4d ¹⁰ 5s ¹ 5p ⁶ -112 / 108 Xe Xenon	55 132,91 -0,440(2) 1,64 [Xe] 6s ¹ 1535 / 2750 Cs Caesium	56 137,33 -0,440(2) 1,64 [Xe] 6s ² 1535 / 2750 Ba Barium	72 178,94 -1,70(4) 1,23 [Xe] 4f ¹⁴ 5d ¹ 6s ² 227 / 4602 Hf Hafnium	73 180,95 -0,182(5) 1,33 [Xe] 4f ¹⁴ 5d ² 6s ² 2996 / 5425 Ta Tantal	74 183,84 -0,199(4) 1,40 [Xe] 4f ¹⁴ 5d ³ 6s ² 3410 / 5657 W Wolfram	75 186,21 0,22(4) 1,46 [Xe] 4f ¹⁴ 5d ⁴ 6s ² 3180 / 5630 Re Rhenium	76 190,23 0,687(4) 1,52 [Xe] 4f ¹⁴ 5d ⁵ 6s ² 3054 / 5027 Os Osmium	77 192,22 1,156(3) 1,55 [Xe] 4f ¹⁴ 5d ⁶ 6s ² 2410 / 4530 Ir Iridium	78 195,08 1,188(2) 1,42 [Xe] 4f ¹⁴ 5d ⁷ 6s ² 1772 / 3827 Pt Platin	79 196,97 1,691(1) 1,42 [Xe] 4f ¹⁴ 5d ⁸ 6s ¹ 1064 / 2908 Au Gold	80 200,59 0,860(2) 1,44 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ¹ -39 / 357 Hg Quecksilber	81 204,38 -0,336(1) 1,44 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ¹ 6p ¹ 303 / 1457 Tl Thallium	82 207,2 -0,125(2) 1,55 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ¹ 6p ² 328 / 1740 Pb Blei	83 208,98 0,317(3) 1,67 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ¹ 6p ³ 271 / 1560 Bi Bismut	84 209,98 <-1,0(-2) 1,76 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ¹ 6p ⁴ 254 / 962 Po Polonium	85 210,99 0,25(-1) 1,96 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ¹ 6p ⁵ 302 / 370 At Astat	86 222,02 2,06 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ¹ 6p ⁶ -71 / -62 Rn Radon	87 223,02 -2,9(1) 0,86 [Rn] 7s ¹ 27 / 677 Fr Francium	88 228,03 -2,916(2) 0,97 [Rn] 7s ² 700 / 1140 Ra Radium	104 267,12 [Rn] 5f ¹⁴ 6d ¹ 7s ² Rf Rutherfordium	105 268,13 [Rn] 5f ¹⁴ 6d ² 7s ² Db Dubnium	106 271,13 [Rn] 5f ¹⁴ 6d ³ 7s ² Sg Seaborgium	107 267,13 [Rn] 5f ¹⁴ 6d ⁴ 7s ² Bh Bohrium	108 277,15 [Rn] 5f ¹⁴ 6d ⁵ 7s ² Hs Hassium	109 276,15 [Rn] 5f ¹⁴ 6d ⁶ 7s ² Mt Meitnerium	110 281,16 [Rn] 5f ¹⁴ 6d ⁷ 7s ² Ds Darmstadtium	111 280,16 [Rn] 5f ¹⁴ 6d ⁸ 7s ² Rg Roentgenium	112 285,17 [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² Cn Copernicium	113 284,18 [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ¹ Uut Ununtrium	114 289,19 [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ² Fl Flerovium	115 288,19 [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ³ Uup Ununpentium	116 292,20 [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁴ Lv Livermorium	117 (294) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁵ Uus Ununseptium	118 (294) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁶ Uuo Ununoctium	57 138,91 -2,38(3) 1,08 [Xe] 5d ¹ 6s ² 920 / 3469 La Lanthan	58 140,12 -1,33(4) 1,08 [Xe] 5d ² 6s ² 798 / 3443 Ce Cer	59 140,91 -0,96(4) 1,07 [Xe] 5d ¹ 6s ² 6p ¹ 931 / 3250 Pr Paseodym	60 144,24 -2,29(3) 1,07 [Xe] 4f ¹ 6s ² 1024 / 3074 Nd Neodym	61 146,92 -2,29(3) 1,07 [Xe] 4f ² 6s ² 931 / 2730 Pm Promethium	62 150,36 -2,67(2) 1,07 [Xe] 4f ³ 6s ² 1074 / 1794 Sm Samarium	63 151,96 -2,80(2) 1,01 [Xe] 4f ⁴ 6s ² 826 / 1439 Eu Europium	64 157,25 -2,28(3) 1,11 [Xe] 4f ⁵ 6s ² 1312 / 3273 Gd Gadolinium	65 158,93 -2,31(3) 1,10 [Xe] 4f ⁶ 6s ² 1356 / 3230 Tb Terbium	66 162,50 -2,29(3) 1,10 [Xe] 4f ⁷ 6s ² 1407 / 2562 Dy Dysprosium	67 164,93 -2,33(3) 1,10 [Xe] 4f ⁸ 6s ² 1474 / 2720 Ho Holmium	68 167,26 -2,32(3) 1,11 [Xe] 4f ⁹ 6s ² 1497 / 2863 Er Erbium	69 168,93 -2,32(3) 1,11 [Xe] 4f ¹⁰ 6s ² 1545 / 1947 Tm Thulium	70 173,05 -2,22(3) 1,06 [Xe] 4f ¹¹ 6s ² 819 / 1196 Yb Ytterbium	71 174,97 -2,30(3) 1,14 [Xe] 4f ¹² 6s ² 1663 / 3395 Lu Lutetium	89 227,03 -2,13(3) 1,00 [Rn] 6d ¹ 7s ² 1050 / 3200 Ac Actinium	90 232,04 -1,83(4) 1,11 [Rn] 6d ² 7s ² 1750 / 4788 Th Thorium	91 231,04 -1,19(5) 1,14 [Rn] 5f ¹ 6d ¹ 7s ² 1845 / 4027 Pa Protactinium	92 238,05 -0,836(3) 1,22 [Rn] 5f ² 6d ¹ 7s ² 1132 / 3930 U Uran	93 237,05 -1,01(5) 1,22 [Rn] 5f ³ 6d ¹ 7s ² 630 / 3902 Np Neptunium	94 244,06 -1,25 1,22 [Rn] 5f ⁴ 7s ² 641 / 3232 Pu Plutonium	95 243,06 -1,96(2) -1,2 [Rn] 5f ⁵ 7s ² 994 / 2607 Am Americium	96 248,07 -2,06(3) -1,2 [Rn] 5f ⁶ 7s ² 1340 / 3110 Cm Curium	97 249,08 -1,96(3) -1,2 [Rn] 5f ⁷ 7s ² 986 / 2950 Bk Berkelium	98 252,08 -1,91(3) -1,2 [Rn] 5f ⁸ 7s ² 950 / - Cf Californium	99 254,09 -1,98(3) -1,2 [Rn] 5f ⁹ 7s ² 860 / - Es Einsteinium	100 257,1 -2,5(2) -1,2 [Rn] 5f ¹⁰ 7s ² 900 / - Fm Fermium	101 260,10 -2,53(2) -1,2 [Rn] 5f ¹¹ 7s ² - / - Md Mendelivium	102 259,10 -2,6(2) -1,2 [Rn] 5f ¹² - / - No Nobelium	103 262,11 -2,1(3) -1,2 [Rn] 5f ¹³ - / - Lr Lawrencium