

Periodensystem der Elemente

I																	VIII						
1 1.0079 1 H 1s ¹ Wasserstoff																	2 4.0026 1 He 1s ² Helium						
II																	III	IV	V	VI	VII		
3 6.941 1 Li 1s ² 2s ¹ Lithium	4 9.01218 2 Be 1s ² 2s ² Beryllium																	5 10.81 3 B 1s ² 2s ² p ¹ Bor	6 12.011 4 C 1s ² 2s ² p ² Kohlenstoff	7 14.0067 5 N 1s ² 2s ² p ³ Stickstoff	8 15.9994 6 O 1s ² 2s ² p ⁴ Sauerstoff	9 18.998403 7 F 1s ² 2s ² p ⁵ Fluor	10 20.179 8 Ne 1s ² 2s ² p ⁶ Neon
11 22.98977 1 Na [Ne]3s ¹ Natrium	12 24.305 2 Mg [Ne]3s ² Magnesium																	13 26.98154 3 Al [Ne]3s ² p ¹ Aluminium	14 28.0855 4 Si [Ne]3s ² p ² Silicium	15 30.97376 5 P [Ne]3s ² p ³ Phosphor	16 32.06 6 S [Ne]3s ² p ⁴ Schwefel	17 35.453 7 Cl [Ne]3s ² p ⁵ Chlor	18 39.948 8 Ar [Ne]3s ² p ⁶ Argon
19 39.0983 1 K [Ar]4s ¹ Kalium	20 40.08 2 Ca [Ar]4s ² Calcium	21 44.9559 3 Sc [Ar]3d ¹ 4s ² Scandium	22 47.9 4,3 Ti [Ar]3d ² 4s ² Titan	23 50.9415 5,4,3,2 V [Ar]3d ³ 4s ² Vanadium	24 51.996 6,3,2 Cr [Ar]3d ⁵ 4s ¹ Chrom	25 54.938 7,6,4,2,3 Mn [Ar]3d ⁵ 4s ² Mangan	26 55.847 2,3 Fe [Ar]3d ⁶ 4s ² Eisen	27 58.9332 2,3 Co [Ar]3d ⁷ 4s ² Kobalt	28 58.7 2,3 Ni [Ar]3d ⁸ 4s ² Nickel	29 63.546 2,1 Cu [Ar]3d ¹⁰ 4s ¹ Kupfer	30 65.38 2 Zn [Ar]3d ¹⁰ 4s ² Zink	31 69.72 3 Ga [Ar]3d ¹⁰ 4s ¹ p ¹ Gallium	32 72.59 4 Ge [Ar]3d ¹⁰ 4s ² p ² Germanium	33 74.9216 ±3,5 As [Ar]3d ¹⁰ 4s ² p ³ Arsen	34 78.96 4,6,-2 Se [Ar]3d ¹⁰ 4s ² p ⁴ Selen	35 79.904 3,12 Br [Ar]3d ¹⁰ 4s ² p ⁵ Brom	36 83.8 3,74 Kr [Ar]3d ¹⁰ 4s ² p ⁶ Krypton						
37 85.4678 1 Rb [Kr]5s ¹ Rubidium	38 87.62 2 Sr [Kr]5s ² Strontium	39 88.9059 3 Y [Kr]4d ¹ 5s ² Yttrium	40 91.22 4 Zr [Kr]4d ² 5s ² Zirkonium	41 92.9064 5,3 Nb [Kr]4d ⁴ 5s ¹ Niob	42 95.94 6,5,4,3,2 Mo [Kr]4d ⁵ 5s ¹ Molybdän	43 98.906 7 Tc [Kr]4d ⁵ 5s ² Technetium	44 101.07 2,3,4,6,8 Ru [Kr]4d ⁷ 5s ¹ Ruthenium	45 102.9055 2,3,4 Rh [Kr]4d ⁸ 5s ¹ Rhodium	46 106.4 2,4 Pd [Kr]4d ¹⁰ Palladium	47 107.868 1 Ag [Kr]4d ¹⁰ 5s ¹ Silber	48 112.41 2 Cd [Kr]4d ¹⁰ 5s ² Cadmium	49 114.82 3 In [Kr]4d ¹⁰ 5s ² p ¹ Indium	50 118.69 4,2 Sn [Kr]4d ¹⁰ 5s ² p ² Zinn	51 121.75 ±3,5 Sb [Kr]4d ¹⁰ 5s ² p ³ Antimon	52 127.6 4,6,-2 Te [Kr]4d ¹⁰ 5s ² p ⁴ Tellur	53 126.9045 2,66 I [Kr]4d ¹⁰ 5s ² p ⁵ Iod	54 131.3 165 Xe [Kr]4d ¹⁰ 5s ² p ⁶ Xenon						
55 132.9054 1 Cs [Xe]6s ¹ Cäsium	56 137.33 2 Ba [Xe]6s ² Barium	57 138.9055 3 La [Xe]5d ¹ 6s ² Lanthan	72 178.49 4 Hf [Xe]4f ¹⁴ 5d ² 6s ² Hafnium	73 180.9479 5 Ta [Xe]4f ¹⁴ 5d ³ 6s ² Tantal	74 183.85 6,5,4,3,2 W [Xe]4f ¹⁴ 5d ⁴ 6s ² Wolfram	75 186.207 7,6,4,2,-1 Re [Xe]4f ¹⁴ 5d ⁵ 6s ² Rhenium	76 190.2 2,3,4,6,8 Os [Xe]4f ¹⁴ 5d ⁶ 6s ² Osmium	77 192.22 2,3,4,6 Ir [Xe]4f ¹⁴ 5d ⁷ 6s ² Iridium	78 195.09 2,4 Pt [Xe]4f ¹⁴ 5d ⁹ 6s ¹ Platin	79 196.9665 3,1 Au [Xe]4f ¹⁴ 5d ¹⁰ 6s ¹ Gold	80 200.59 2,1 Hg [Xe]4f ¹⁴ 5d ¹⁰ 6s ² Quecksilber	81 204.37 3,1 Tl [Xe]4f ¹⁴ 5d ¹⁰ 6s ² p ¹ Thallium	82 207.2 4,2 Pb [Xe]4f ¹⁴ 5d ¹⁰ 6s ² p ² Blei	83 208.9804 3,5 Bi [Xe]4f ¹⁴ 5d ¹⁰ 6s ² p ³ Bismut	84 [209] 4,2 Po [Xe]4f ¹⁴ 5d ¹⁰ 6s ² p ⁴ Polonium	85 [210] At [Xe]4f ¹⁴ 5d ¹⁰ 6s ² p ⁵ Astat	86 [222] Rn [Xe]4f ¹⁴ 5d ¹⁰ 6s ² p ⁶ Radon						
87 [223] 1 Fr [Rn]7s ¹ Francium	88 226.0254 2 Ra [Rn]7s ² Radium	89 227.0278 3 Ac [Rn]6d ¹ 7s ² Actinium	Symbol schwarz: fest Symbol blau: flüssig Symbol rot: gasförmig																				

Zn (Zink)

Ordnungszahl: 30
Relative Atommasse: 65.38
Atomare Masseneinheit (u): 65.38
Molare Masse (g/mol): 65.38

Siedepunkt (K): 1180
Schmelzpunkt (K): 912
Dichte (g/mL, g/L): 7.14
Atomradius (pm): 153

Ionenladung: 2
Symbol: Zn
Elektronenkonfiguration: [Ar]3d¹⁰4s²
Name: Zink
Elektronegativität: 1.65

58 140.12 3699 1071 6.78 Ce [Xe]4f ¹ 5d ¹ 6s ² Cer	59 140.9077 6.77 Pr [Xe]4f ³ 6s ² Praseodymium	60 144.24 7.01 Nd [Xe]4f ⁴ 6s ² Neodymium	61 [145] 6.47 <i>Pm</i> [Xe]4f ⁶ 6s ² Promethium	62 150.4 7.54 Sm [Xe]4f ⁶ 6s ² Samarium	63 151.96 Eu [Xe]4f ⁷ 6s ² Europium	64 157.25 Gd [Xe]4f ⁷ 5d ¹ 6s ² Gadolinium	65 158.9254 Tb [Xe]4f ⁹ 6s ² Terbium	66 162.5 Dy [Xe]4f ¹⁰ 6s ² Dysprosium	67 164.9304 Ho [Xe]4f ¹¹ 6s ² Holmium	68 167.26 Er [Xe]4f ¹² 6s ² Erbium	69 168.9342 Tm [Xe]4f ¹³ 6s ² Thulium	70 173.04 Yb [Xe]4f ¹⁴ 6s ² Ytterbium	71 174.967 Lu [Xe]4f ¹⁴ 5d ¹ 6s ² Lutetium
90 232.0381 11.7 Th [Rn]6d ² 7s ² Thorium	91 231.0359 15.4 Pa [Rn]5f ² 6d ¹ 7s ² Protactinium	92 238.029 14.007 1405 18.9 U [Rn]5f ³ 6d ¹ 7s ² Uran	93 237.048 20.4 <i>Np</i> [Rn]5f ⁶ 6d ¹ 7s ² Neptunium	94 [244] 3503 913 19.8 <i>Pu</i> [Rn]5d ⁸ 7s ² Plutonium	95 [243] <i>Am</i> [Rn]5f ⁷ 7s ² Americium	96 [247] <i>Cm</i> [Rn]5f ⁷ 6d ¹ 7s ² Curium	97 [247] <i>Bk</i> [Rn]5f ⁹ 7s ² Berkelium	98 [251] <i>Cf</i> [Rn]5f ¹⁰ 7s ² Californium	99 [252] <i>Es</i> [Rn]5f ¹¹ 7s ² Einsteinium	100 [257] <i>Fm</i> [Rn]5f ¹² 7s ² Fermium	101 [258] <i>Md</i> [Rn]5f ¹³ 7s ² Mendelevium	102 [259] <i>No</i> [Rn]5f ¹⁴ 7s ² Nobelium	103 [260] <i>Lr</i> [Rn]5f ¹⁴ 6d ¹ 7s ² Lawrencium

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