

Periodensystem der Elemente

HIDE BACKGROUND COLOR?

No

FALSE

GROUP 1
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18
VIIIA

Period	1	<table border="1"> <tr> <td>1</td> <td>1.00794 H Wasserstoff 0,0899 13,5984 -259,14 -252,87 (v) 37 1s1 +1,-1</td> <td colspan="14"> <table border="1"> <tr> <td>2</td> <td>4.002602 He Helium 0,1785 24,5874 -268,93 (v) 32 1s2 0</td> </tr> </table> </td> </tr> </table>																1	1.00794 H Wasserstoff 0,0899 13,5984 -259,14 -252,87 (v) 37 1s1 +1,-1	<table border="1"> <tr> <td>2</td> <td>4.002602 He Helium 0,1785 24,5874 -268,93 (v) 32 1s2 0</td> </tr> </table>														2	4.002602 He Helium 0,1785 24,5874 -268,93 (v) 32 1s2 0	2	4.002602 He Helium 0,1785 24,5874 -268,93 (v) 32 1s2 0																																																																																																																																																							
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	2	<table border="1"> <tr> <td>3</td> <td>6.941 Li Lithium 0,535 5,3917 180,54 1342 (m) 152 BCC [He] 2s1</td> <td>4</td> <td>9.012182 Be Beryllium 1,848 9,3227 1287 2470 (m) 112 HCP [He] 2s2</td> <td colspan="14"> <table border="1"> <tr> <td>5</td> <td>10.811 B Bor 2,46 8,2980 2075 4000 (v) 82 rhom. 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[Ar] 3d10 4s2 4p3</td> <td>34</td> <td>78.96 Se Selen 4,819 9,7524 221 685 (v) 116 §hex [Ar] 3d10 4s2 4p4</td> <td>35</td> <td>79,904 Br Brom 3,12 11,8138 -7,3 59 (v) 114 BCO [Ar] 3d10 4s2 4p5</td> <td>36</td> <td>83.798 Kr Krypton 3,75 13,9996 -157,36 -153,22 (v) 110 [Ar] 3d10 4s2 4p6</td> </tr> <tr> <td>5</td> <td>85.4678 Rb Rubidium 1,532 4,1771 39,31 688 (m) 248 BCC [Kr] 5s1</td> <td>38</td> <td>87.62 Sr Strontium 2,63 5,6949 777 1382 (m) 215 FCC [Kr] 5s2</td> <td>39</td> <td>88.90585 Y Yttrium 4,472 6,2173 1526 3345 (m) 180 HCP [Kr] 4d1 5s2</td> <td>40</td> <td>91.224 Zr Zirkon 6,511 6,6339 1855 4409 (m) 180 HCP [Kr] 4d2 5s2</td> <td>41</td> <td>92.90638 Nb Niob 8,57 6,7589 2477 4744 (m) 146 BCC [Kr] 4d4 5s1</td> <td>42</td> <td>95.94 Mo Molybdän 10,28 7,0924 2623 4639 (m) 139 BCC [Kr] 4d5 5s1</td> <td>43</td> <td>98 Tc Technetium 11,5 7,28 2157 4265 (m) 136 HCP [Kr] 4d5 5s2</td> <td>44</td> <td>101.07 Ru Ruthenium 12,37 7,3605 2334 4150 (m) 134 HCP [Kr] 4d7 5s1</td> <td>45</td> <td>102,90550 Rh Rhodium 12,45 7,4589 1964 3695 (m) 134 FCC [Kr] 4d8 5s1</td> <td>46</td> <td>106.42 Pd Palladium 12,023 8,3369 1554,9 2963 (m) 137 FCC [Kr] 4d10</td> <td>47</td> <td>107.8682 Ag Silber 10,49 7,5762 961,78 2162 (m) 144 FCC [Kr] 4d10 5s1</td> <td>48</td> <td>112.411 Cd Cadmium 8,65 8,9938 321,07 767 (m) 151 §hex [Kr] 4d10 5s2</td> <td>49</td> <td>114.818 In Indium 7,31 5,7864 156,6 2072 (m) 167 §tetra. [Kr] 4d10 5s2 5p1</td> <td>50</td> <td>118,710 Sn Zinn 7,31 7,3439 231,93 2602 (v) 141 §tetra. [Kr] 4d10 5s2 5p2</td> <td>51</td> <td>121,760 Sb Antimon 6,697 8,6084 630,63 1587 (v) 138 §rhom. [Kr] 4d10 5s2 5p3</td> <td>52</td> <td>127,60 Te Tellur 6,24 9,0096 449,51 988 (v) 135 hex [Kr] 4d10 5s2 5p4</td> <td>53</td> <td>126.90447 I Iod 4,94 10,4513 113,7 184,3 (v) 133 BCO [Kr] 4d10 5s2 5p5</td> <td>54</td> <td>131.293 Xe Xenon 5,9 12,1298 -111,8 -108 (v) 130 [Kr] 4d10 5s2 5p6</td> </tr> <tr> <td>6</td> <td>132.90545 Cs Cäsium 1,879 3,8939 28,44 671 (m) 265 BCC [Xe] 6s1</td> <td>56</td> <td>137.327 Ba Barium 3,51 5,2117 727 1870 (m) 222 BCC [Xe] 6s2</td> <td colspan="16">Lanthanide</td> </tr> <tr> <td>7</td> <td>223 Fr Francium - 4,0727 - - [Rn] 7s1</td> <td>226 Ra Radium 5 5,2784 700 1737 BCC [Rn] 7s2</td> <td colspan="16">Actinide</td> </tr> </table>																3	6.941 Li Lithium 0,535 5,3917 180,54 1342 (m) 152 BCC [He] 2s1	4	9.012182 Be Beryllium 1,848 9,3227 1287 2470 (m) 112 HCP [He] 2s2	<table border="1"> <tr> <td>5</td> <td>10.811 B Bor 2,46 8,2980 2075 4000 (v) 82 rhom. 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[Ar] 3d10 4s2 4p3	34	78.96 Se Selen 4,819 9,7524 221 685 (v) 116 §hex [Ar] 3d10 4s2 4p4	35	79,904 Br Brom 3,12 11,8138 -7,3 59 (v) 114 BCO [Ar] 3d10 4s2 4p5	36	83.798 Kr Krypton 3,75 13,9996 -157,36 -153,22 (v) 110 [Ar] 3d10 4s2 4p6	5	85.4678 Rb Rubidium 1,532 4,1771 39,31 688 (m) 248 BCC [Kr] 5s1	38	87.62 Sr Strontium 2,63 5,6949 777 1382 (m) 215 FCC [Kr] 5s2	39	88.90585 Y Yttrium 4,472 6,2173 1526 3345 (m) 180 HCP [Kr] 4d1 5s2	40	91.224 Zr Zirkon 6,511 6,6339 1855 4409 (m) 180 HCP [Kr] 4d2 5s2	41	92.90638 Nb Niob 8,57 6,7589 2477 4744 (m) 146 BCC [Kr] 4d4 5s1	42	95.94 Mo Molybdän 10,28 7,0924 2623 4639 (m) 139 BCC [Kr] 4d5 5s1	43	98 Tc Technetium 11,5 7,28 2157 4265 (m) 136 HCP [Kr] 4d5 5s2	44	101.07 Ru Ruthenium 12,37 7,3605 2334 4150 (m) 134 HCP [Kr] 4d7 5s1	45	102,90550 Rh Rhodium 12,45 7,4589 1964 3695 (m) 134 FCC [Kr] 4d8 5s1	46	106.42 Pd Palladium 12,023 8,3369 1554,9 2963 (m) 137 FCC [Kr] 4d10	47	107.8682 Ag Silber 10,49 7,5762 961,78 2162 (m) 144 FCC [Kr] 4d10 5s1	48	112.411 Cd Cadmium 8,65 8,9938 321,07 767 (m) 151 §hex [Kr] 4d10 5s2	49	114.818 In Indium 7,31 5,7864 156,6 2072 (m) 167 §tetra. [Kr] 4d10 5s2 5p1	50	118,710 Sn Zinn 7,31 7,3439 231,93 2602 (v) 141 §tetra. [Kr] 4d10 5s2 5p2	51	121,760 Sb Antimon 6,697 8,6084 630,63 1587 (v) 138 §rhom. [Kr] 4d10 5s2 5p3	52	127,60 Te Tellur 6,24 9,0096 449,51 988 (v) 135 hex [Kr] 4d10 5s2 5p4	53	126.90447 I Iod 4,94 10,4513 113,7 184,3 (v) 133 BCO [Kr] 4d10 5s2 5p5	54	131.293 Xe Xenon 5,9 12,1298 -111,8 -108 (v) 130 [Kr] 4d10 5s2 5p6	6	132.90545 Cs Cäsium 1,879 3,8939 28,44 671 (m) 265 BCC [Xe] 6s1	56	137.327 Ba Barium 3,51 5,2117 727 1870 (m) 222 BCC [Xe] 6s2	Lanthanide																7	223 Fr Francium - 4,0727 - - [Rn] 7s1	226 Ra Radium 5 5,2784 700 1737 BCC [Rn] 7s2	Actinide															
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	3	22,989770 Na Natrium 0,968 5,1391 97,72 883 (m) 186 BCC [Ne] 3s1	12	24,3050 Mg Magnesium 1,738 7,6462 650 1090 (m) 160 HCP [Ne] 3s2	<table border="1"> <tr> <td>13</td> <td>26.981538 Al Aluminium 2,7 5,9858 680,32 2519 (m) 143 FCC [Ne] 3s2 3p1</td> <td>14</td> <td>28.0855 Si Silizium 2,33 8,1517 1414 2900 (v) 111 cubic [Ne] 3s2 3p2</td> <td>15</td> <td>30.97361 P Phosphor 1,823 10,4867 44,2 280,5 (v) 106 § [Ne] 3s2 3p3</td> <td>16</td> <td>32.0855 S Schwefel 1,96 10,3600 115,21 444,72 (v) 102 FCC [Ne] 3s2 3p4</td> <td>17</td> <td>35.453 Cl Chlor 3,214 12,9676 -101,5 -34,04 (v) 99 [Ne] 3s2 3p5</td> <td>18</td> <td>39.948 Ar Argon 1,784 15,7596 -189,3 -185,8 (v) 97 [Ne] 3s2 3p6</td> </tr> </table>														13	26.981538 Al Aluminium 2,7 5,9858 680,32 2519 (m) 143 FCC [Ne] 3s2 3p1	14	28.0855 Si Silizium 2,33 8,1517 1414 2900 (v) 111 cubic [Ne] 3s2 3p2	15	30.97361 P Phosphor 1,823 10,4867 44,2 280,5 (v) 106 § [Ne] 3s2 3p3	16	32.0855 S Schwefel 1,96 10,3600 115,21 444,72 (v) 102 FCC [Ne] 3s2 3p4	17	35.453 Cl Chlor 3,214 12,9676 -101,5 -34,04 (v) 99 [Ne] 3s2 3p5	18	39.948 Ar Argon 1,784 15,7596 -189,3 -185,8 (v) 97 [Ne] 3s2 3p6																																																																																																																																																														
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4	39.0983 K Kalium 0,856 4,3407 83,38 759 (m) 227 BCC [Ar] 4s1	20	40.078 Ca Kalium 1,55 6,1132 842 1484 (m) 197 FCC [Ar] 4s2	21	44,955910 Sc Scandium 2,985 6,5615 1541 2830 (m) 162 HCP [Ar] 3d1 4s2	22	47.867 Ti Titan 4,507 6,8281 1688 3287 (m) 147 HCP [Ar] 3d3 4s2	23	50.9415 V Vanadium 6,11 6,7482 1810 3407 (m) 134 BCC [Ar] 3d3 4s2	24	51.9961 Cr Chrom 7,14 6,7665 1907 2671 (m) 128 BCC [Ar] 3d5 4s1	25	54.938049 Mn Mangan 7,47 7,4340 1246 2061 (m) 127 §cubic [Ar] 3d5 4s2	26	55.845 Fe Eisen 7,874 7,9024 1538 2861 (m) 126 BCC [Ar] 3d6 4s2	27	58,933200 Co Kobalt 8,9 7,8810 1405 2927 (m) 125 HCP [Ar] 3d7 4s2	28	58.9332 Ni Nickel 8,908 7,8938 1455 2913 (m) 124 FCC [Ar] 3d8 4s2	29	63.546 Cu Kupfer 8,92 7,7264 1084,82 2927 (m) 128 FCC [Ar] 3d10 4s1	30	65.409 Zn Zink 7,14 9,3942 419,53 907 (m) 134 §hex [Ar] 3d10 4s2	31	69.723 Ga Gallium 5,904 5,9983 297,8 2204 (m) 135 §BCO [Ar] 3d10 4s2 4p1	32	72.64 Ge Germanium 5,323 7,8994 938,3 2820 (v) 122 §cubic [Ar] 3d10 4s2 4p2	33	74,92160 As Arsen 5,727 9,7886 817 614 (v) 119 rhom. [Ar] 3d10 4s2 4p3	34	78.96 Se Selen 4,819 9,7524 221 685 (v) 116 §hex [Ar] 3d10 4s2 4p4	35	79,904 Br Brom 3,12 11,8138 -7,3 59 (v) 114 BCO [Ar] 3d10 4s2 4p5	36	83.798 Kr Krypton 3,75 13,9996 -157,36 -153,22 (v) 110 [Ar] 3d10 4s2 4p6																																																																																																																																																									
5	85.4678 Rb Rubidium 1,532 4,1771 39,31 688 (m) 248 BCC [Kr] 5s1	38	87.62 Sr Strontium 2,63 5,6949 777 1382 (m) 215 FCC [Kr] 5s2	39	88.90585 Y Yttrium 4,472 6,2173 1526 3345 (m) 180 HCP [Kr] 4d1 5s2	40	91.224 Zr Zirkon 6,511 6,6339 1855 4409 (m) 180 HCP [Kr] 4d2 5s2	41	92.90638 Nb Niob 8,57 6,7589 2477 4744 (m) 146 BCC [Kr] 4d4 5s1	42	95.94 Mo Molybdän 10,28 7,0924 2623 4639 (m) 139 BCC [Kr] 4d5 5s1	43	98 Tc Technetium 11,5 7,28 2157 4265 (m) 136 HCP [Kr] 4d5 5s2	44	101.07 Ru Ruthenium 12,37 7,3605 2334 4150 (m) 134 HCP [Kr] 4d7 5s1	45	102,90550 Rh Rhodium 12,45 7,4589 1964 3695 (m) 134 FCC [Kr] 4d8 5s1	46	106.42 Pd Palladium 12,023 8,3369 1554,9 2963 (m) 137 FCC [Kr] 4d10	47	107.8682 Ag Silber 10,49 7,5762 961,78 2162 (m) 144 FCC [Kr] 4d10 5s1	48	112.411 Cd Cadmium 8,65 8,9938 321,07 767 (m) 151 §hex [Kr] 4d10 5s2	49	114.818 In Indium 7,31 5,7864 156,6 2072 (m) 167 §tetra. [Kr] 4d10 5s2 5p1	50	118,710 Sn Zinn 7,31 7,3439 231,93 2602 (v) 141 §tetra. [Kr] 4d10 5s2 5p2	51	121,760 Sb Antimon 6,697 8,6084 630,63 1587 (v) 138 §rhom. [Kr] 4d10 5s2 5p3	52	127,60 Te Tellur 6,24 9,0096 449,51 988 (v) 135 hex [Kr] 4d10 5s2 5p4	53	126.90447 I Iod 4,94 10,4513 113,7 184,3 (v) 133 BCO [Kr] 4d10 5s2 5p5	54	131.293 Xe Xenon 5,9 12,1298 -111,8 -108 (v) 130 [Kr] 4d10 5s2 5p6																																																																																																																																																									
6	132.90545 Cs Cäsium 1,879 3,8939 28,44 671 (m) 265 BCC [Xe] 6s1	56	137.327 Ba Barium 3,51 5,2117 727 1870 (m) 222 BCC [Xe] 6s2	Lanthanide																																																																																																																																																																																								
7	223 Fr Francium - 4,0727 - - [Rn] 7s1	226 Ra Radium 5 5,2784 700 1737 BCC [Rn] 7s2	Actinide																																																																																																																																																																																									

Kategorien

Nichtmetalle	Edelgase
Alkalimetalle	Erdalkalimetalle
Halbmetalle	Halogene
Andere Metalle	Übergangsmetalle
Seltenerden	

**Naturkonstanten

Absoluter Nullpunkt	-273.15 °C	Gravitationskonstante	G	6.67408x10 ⁻¹¹ m ³ kg ⁻¹ s ⁻²
Atomare Masseneinheit	1.660539x10 ⁻²⁷ kg	Gaskonstante	R	8.31446 J/mol·K
Avogadrokonstante	6.02214x10 ²³ mol ⁻¹	Molvolumen (Ideales Gas)		0.02241396 m ³ /mol
Eulersche Zahl	e	PI	p	3.141592653589793
Boltzmannkonstante	k	Planck Konstante	h	6.626070x10 ⁻³⁴ J s
Elektronenmasse	m _e	Massenverhältnis p/+e	m _p /m _e	1836.15267389
Elektronenradius (Bohr)	r _e	R _∞ c		3.289842x10 ¹⁵ Hz
Elektronvolt	eV	R _∞ hc		13.605693 eV
Elementarladung	e	Second Radiation Konstant	ch/k	0.01438777 m K
Faradaykonstante	F	Lichtgeschwindigkeit im Vakuum	c	299 792 458 m/s
fine-structure Konstante	α	Schallgeschwindigkeit (Luft/STP)		343.2 m/s
First Radiation Konstante	Z _{phc2}	Normaldruck		101.325 Pa

Quelle: physics.nist.gov (19.9.2018)

a)
- Dichte in g/cm³ (Feststoffe) und kg/m³ bei 0° C (Gase)
- Atomimmass relativ zu 12C/12
- () Massenzahl des stabilsten Isotops
- häufigsten Oxidationsstufen
fettgedruckt
- Elektronenkonfig. nach IUPAC
- § Kristallstruktur ungewöhnlich
- (m) Metallradius, (v) Kovalenter Radius
Quellen:
**Nist.gov, *Wolfram.com (Mathematic), CRC Handbook of Chemistry and Physics 81st Edition, 2000-2001, and others

Lanthanide	57	138.9055 La Lanthan 6,146 5,5769 920 3464 (m) 187 §hex [Xe] 5d1 6s2	58	140.116 Ce Zer 6,689 5,5387 798 3360 (m) 182 FCC [Xe] 4f1 5d1 6s2	59	140,90765 Pr Praseodym 6,64 5,473 931 3290 (m) 182 §hex [Xe] 4f3 6s2	60	144.24 Nd Neodym 7,01 5,5250 1021 3100 [Xe] 4f4 6s2	61	145 Pm Promethium 7,264 5,582 1100 3000 [Xe] 4f5 6s2	62	150.36 Sm Samarium 7,353 5,6437 1072 1803 (m) 180 §hex [Xe] 4f6 6s2	63	151.964 Eu Europium 5,244 5,6704 822 1527 (m) 180 BCC [Xe] 4f7 6s2	64	157.25 Gd Gadolinium 7,901 6,1498 1313 3250 (m) 180 HCP [Xe] 4f7 5d1 6s2	65	158,92534 Tb Terbium 8,219 5,8638 1356 3230 (m) 177 HCP [Xe] 4f9 6s2	66	162,500 Dy Dysprosium 8,551 5,9389 1412 2567 (m) 178 HCP [Xe] 4f10 6s2	67	164,93032 Ho Holmium 8,795 6,0215 1474 2700 (m) 176 HCP [Xe] 4f11 6s2	68	167,259 Er Erbium 9,066 6,1077 1497 2868 (m) 176 HCP [Xe] 4f12 6s2	69	168,93421 Tm Thulium 9,321 6,1843 1545 1950 (m) 176 HCP [Xe] 4f13 6s2	70	173.04 Yb Ytterbium 6,57 6,2542 819 1196 (m) 176 FCC [Xe] 4f14 6s2	71	174.967 Lu Lutetium 9,841 5,4259 1663 3402 (m) 174 HCP [Xe] 4f14 5d1 6s2
	Actinide	89	227 Ac Aktinium 10,07 5,17 1050 3200 FCC [Rn] 6d1 7s2	90	232,0381 Th Thorium 11,724 6,3067 1750 4820 (m) 179 FCC [Rn] 6d2 7s2	91	231,0359 Pa Protactinium 15,37 5,89 1572 4000 (m) 163 §tetra [Rn] 5f2 6d1 7s2	92	238,0289 U Uran 19,05 6,1941 1135 3927 (m) 156 BCP [Rn] 5f3 6d1 7s2	93	237 Np Neptunium 20,45 6,2657 644 4000 (m) 155 SO [Rn] 5f4 6d1 7s2	94	244 Pu Plutonium 19,816 6,0260 640 3230 (m) 159 §mono. [Rn] 5f6 7s2	95	243 Am Americium 13,51 5,9914 1176 2011 (m) 173 HCP [Rn] 5f7 7s2	96	247 Cm Curium 14,78 6,1979 1050 - (m) 170 hex [Rn] 5f9 7s2	97	247 Bk Berkelium 15,1 6,2817 900 - hex [Rn] 5f10 7s2	98	251 Cf Californium 15,1 6,2817 900 - hex [Rn] 5f10 7s2	99	252 Es Einsteinium 15,1 6,42 860 - [Rn] 5f11 7s2	100	257 Fm Fermium 15,1 6,50 1527 - [Rn] 5f12 7s2	101	258 Md Mendelevium 15,1 6,58 827 - [Rn] 5f13 7s2	102	259 No Nobelium 15,1 6,65 827 - [Rn] 5f14 7s2	103

