

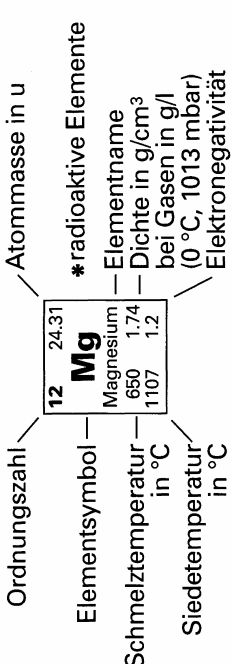
PERIODE

Hauptgruppen  
I II

# Periodensystem der Elemente

Hauptgruppen  
III IV V VI VII VIII

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18														
1. Wasserstoff -259 0.09 -253 2.1	2. Helium 0.18 -269	3. Lithium 181 0.53 1330 1.0 2970 1.5	4. Beryllium 181 0.53 1330 1.0 2970 1.5	5. Bor (2030) 2.35 2550 2.0 4830 2.5	6. Kohlenstoff (3560) 2.2 2550 2.0 4830 2.5	7. Stickstoff -210 1.25 -196 3.0	8. Sauerstoff -219 1.43 -183 3.5	9. Fluor -220 1.7 -188 4.0	10. Neon 1.7 -249 4.0 -246	11. Natrium 98 0.97 892 0.9 1107 1.2	12. Magnesium 650 1.74 1107 1.2	13. Aluminium 660 2.70 2450 1.5 2680 1.8	14. Silicium 1410 2.33 2450 1.5 2680 1.8	15. Phosphor 44 1.82 280 2.1 445 2.5	16. Schwefel 119 2.07 219 2.5 353 2.5	17. Chlor -101 3.2 -35 3.0	18. Argon -189 1.78 -186														
19. Kalium 64 0.86 760 0.8 1440 1.0	20. Calcium 838 1.55 1440 1.0 1440 1.0	21. Scandium 1539 3.0 2730 1.3 2730 1.3	22. Titan 1668 4.54 3260 1.5 3260 1.5	23. Vanadium 1900 6.1 3450 1.6 3450 1.6	24. Chrom 1875 7.19 2200 1.6 2200 1.6	25. Mangan 1245 7.43 2097 1.5 3000 1.8	26. Eisen 1536 7.86 3000 1.8 3000 1.8	27. Cobalt 1495 8.9 2900 1.9 2730 1.9	28. Nickel 1453 8.9 2730 1.9 2595 1.9	29. Kupfer 1083 8.96 1925 1.9 2595 1.9	30. Zink 420 7.13 906 1.6 906 1.6	31. Gallium 30 5.91 2237 1.6 2237 1.6	32. Germanium 937 5.32 2830 1.8 2830 1.8	33. Arsen 5.72 217 2.0 685 2.4	34. Selen 217 4.79 685 2.4 685 2.4	35. Brom -7 3.12 58 2.8	36. Krypton -157 3.7 -152														
37. Rubidium 39 1.53 688 0.8 1380 1.0	38. Strontium 768 2.6 1380 1.0 1380 1.0	39. Yttrium 1509 4.47 2927 1.2 2927 1.2	40. Zirkonium 1852 6.49 3580 1.4 3580 1.4	41. Niob 2468 6.49 4927 1.6 4927 1.6	42. Molybdän 2610 10.2 5560 1.8 5560 1.8	43. Technetium 2140 11.5 5030 1.9 3900 2.2	44. Ruthenium 2500 12.4 3900 2.2 3900 2.2	45. Rhodium 1966 12.4 3730 2.2 3730 2.2	46. Palladium 1552 12.0 2210 1.9 2210 1.9	47. Silber 1062 10.5 1969 1.7 1969 1.7	48. Cadmium 321 8.65 765 1.7 765 1.7	49. Indium 156 7.31 2080 1.7 2080 1.7	50. Zinn 232 7.30 2270 1.8 2270 1.8	51. Antimon 631 6.69 1380 1.9 990 2.1	52. Tellur 450 6.24 990 2.1 990 2.1	53. Iod 114 4.94 183 2.4	54. Xenon -112 5.89 -108														
55. Caesium 29 1.90 690 0.7 1640 0.9	56. Barium 714 3.76 1640 0.9 1640 0.9	57. Die Elemente 57-71 sind nicht aufgelistet.	72. Hafnium 2222 13.31 5400 1.3 5425 1.5	73. Tantal 2996 16.6 5425 1.5 5930 1.7	74. Wolfram 3180 19.3 5930 1.7 5930 1.7	75. Rhenium 3180 21.0 5500 1.9 5500 2.2	76. Osmium 3050 22.6 5500 2.2 4500 2.2	77. Iridium 2454 22.7 2450 2.2 4500 2.2	78. Platin 21769 21.4 2970 2.2 2970 2.2	79. Gold 196.97 19.3 2970 2.2 2970 2.2	80. Quecksilber -38 13.6 357 1.9 357 1.9	81. Thallium 303 11.85 1457 1.8 1725 1.9	82. Blei 327 11.4 1725 1.9 1962 2.0	83. Bismut 271 9.8 1560 1.9 1962 2.0	84. Polonium 254 9.3 1962 2.0 337 2.2	85. Astat (302) (-71) 9.73	86. Radon (222) (-71) 9.73														
87. Francium (27) 677	88. Radium 700 5.0 1140 0.9	89. Actinium (227) 677	90. Thorium 232.04 19.07	91. Protactinium 231.04 19.07	92. Uran 238.03 19.07	93. Neptunium 237.05 19.81	94. Plutonium 244 19.81	95. Americium (243) 19.81	96. Curium (247) 19.81	97. Berkeleium (247) 19.81	98. Californium (251) 19.81	99. Einsteinium (252) 19.81	100. Fermium (257) 19.81	101. Mendelevium (258) 19.81	102. Nobelium (259) 19.81	103. Lawrencium (260) 19.81	104. Rutherfordium (261) 19.81	105. Dubnium (262) 19.81	106. Seaborgium (263) 19.81	107. Bohrium (264) 19.81	108. Hassium (265) 19.81	109. Meitnerium (266) 19.81	110. Darmstadtium (267) 19.81	111. Roentgenium (268) 19.81	112. Copernicium (269) 19.81	113. Nihonium (270) 19.81	114. Flerovium (271) 19.81	115. Moscovium (272) 19.81	116. Livermorium (273) 19.81	117. Tenness (274) 19.81	118. Oganesson (276) 19.81



## Nebengruppen