

Ne I NIST Atomic Spectra Database

Wavelength range: 3900 - 7200 Å

Highest relative intensity: 100000

| <i>Observed Wavelength Air (Å)</i> | <i>Ritz Wavelength Air (Å)</i> | <i>Moore</i> | <i>Rel. Int. (?)</i> | <i>Observed Wavelength Air (Å)</i> | <i>Ritz Wavelength Air (Å)</i> | <i>Moore</i> | <i>Rel. Int. (?)</i> |
|--|--|--------------|------------------------------|--|--|--------------|------------------------------|
| 4037.6150 | 4 037.60+ | | 150 | 4452.9830 | 4 452.99+ | | 150 |
| 4042.6420 | 4 042.65+ | | 500 | 4455.5640 | 4 455.570+ | | 150 |
| 4064.0360 | 4 064.02+ | | 500 | 4460.1750 | 4 460.176+ | | 1000 |
| 4064.8290 | 4 064.83+ | | 150 | 4465.6544 | 4 465.648+ | | 500 |
| 4068.8350 | 4 068.83+ | | 300 | 4466.8120 | 4 466.812+ | | 700 |
| 4069.2430 | 4 069.23+ | | 300 | 4475.6560 | 4 475.654+ | | 1000 |
| 4080.1480 | 4 080.14+ | | 500 | 4480.8230 | 4 480.82+ | | 150 |
| 4112.1000 | 4 112.10+ | | 150 | 4483.1900 | 4 483.1961+ | | 1500 |
| 4112.6940 | 4 112.69+ | | 200 | 4488.0926 | 4 488.0933+ | | 3000 |
| 4128.0720 | 4 128.076+ | | 300 | 4491.7716 | 4 491.770+ | | 800 |
| 4130.5120 | 4 130.524+ | | 200 | 4491.8380 | 4 491.84+ | | 500 |
| 4131.0613 | 4 131.061+ | | 700 | 4492.4120 | 4 492.41+ | | 300 |
| 4164.8079 | 4 164.807+ | | 500 | 4492.6890 | 4 492.673+ | | 150 |
| 4166.0910 | 4 166.099+ | | 300 | 4493.6990 | 4 493.694+ | | 500 |
| 4174.3667 | 4 174.367+ | | 700 | 4500.1820 | 4 500.182+ | | 500 |
| 4175.2197 | 4 175.219+ | | 600 | 4510.1700 | 4 510.1537+ | | 150 |
| 4175.4880 | 4 175.49+ | | 400 | 4514.8910 | 4 514.884+ | | 700 |
| 4196.4150 | 4 196.420+ | | 150 | 4515.4110 | 4 515.415+ | | 300 |
| 4198.1018 | 4 198.098+ | | 700 | 4516.9360 | 4 516.934+ | | 500 |
| 4268.0086 | 4 268.005+ | | 700 | 4517.7360 | 4 517.736+ | | 1000 |
| 4269.7223 | 4 269.722+ | | 700 | 4525.7640 | 4 525.766+ | | 700 |
| 4270.2252 | 4 270.225+ | | 500 | 4526.1770 | 4 526.17+ | | 500 |
| 4274.6617 | 4 274.660+ | | 500 | 4527.7250 | 4 527.71+ | | 150 |
| 4275.5590 | 4 275.5572+ | | 700 | 4529.4760 | 4 529.45+ | | 300 |
| 4279.2790 | 4 279.28+ | | 150 | 4536.3003 | 4 536.2996+ | | 1500 |
| 4303.2480 | 4 303.254+ | | 300 | 4537.6768 | 4 537.6762+ | | 3000 |
| 4306.2508 | 4 306.252+ | | 700 | 4537.7545 | 4 537.7551+ | 4537.751 | 10000 |
| 4314.6950 | 4 314.70+ | | 300 | 4538.3026 | 4 538.301+ | | 3000 |
| 4316.0080 | 4 316.005+ | | 150 | 4539.1680 | 4 539.165+ | | 500 |
| 4334.1267 | 4 334.1253+ | | 700 | 4540.3801 | 4 540.379+ | 4540.376 | 500 |
| 4336.2268 | 4 336.2251+ | | 500 | 4544.5020 | 4 544.49+ | | 500 |
| 4346.0360 | 4 346.01+ | | 150 | 4547.7280 | 4 547.7082+ | | 150 |
| 4362.6900 | 4 362.69+ | | 300 | 4552.5980 | 4 552.598+ | | 300 |
| 4363.5240 | 4 363.524+ | | 700 | 4554.8240 | 4 554.82+ | | 400 |
| 4372.1570 | 4 372.151+ | | 300 | 4555.3920 | 4 555.387+ | | 300 |
| 4381.2200 | 4 381.220+ | | 300 | 4565.8880 | 4 565.889+ | | 600 |
| 4394.7730 | 4 394.78+ | | 150 | 4566.8300 | 4 566.826+ | | 400 |
| 4395.5560 | 4 395.556+ | | 500 | 4567.1390 | 4 567.139+ | | 150 |
| 4409.6200 | 4 409.601+ | | 200 | 4573.5570 | 4 573.557+ | | 500 |
| 4412.2850 | 4 412.2878+ | | 200 | 4573.8980 | 4 573.885+ | | 300 |
| 4413.5610 | 4 413.557+ | | 150 | 4575.0620 | 4 575.061+ | | 3000 |
| 4416.8170 | 4 416.815+ | | 500 | 4575.8580 | 4 575.857+ | | 200 |
| 4421.5553 | 4 421.554+ | | 500 | 4582.0350 | 4 582.0397+ | | 1500 |
| 4422.5205 | 4 422.5191+ | | 3000 | 4582.1050 | 4 582.1009+ | | 150 |
| 4424.8065 | 4 424.8052+ | | 3000 | 4582.4521 | 4 582.450+ | | 1500 |
| 4425.4000 | 4 425.400+ | | 1500 | 4582.5560 | 4 582.5596+ | | 150 |
| 4427.7550 | 4 427.72+ | | 300 | 4593.2430 | 4 593.234+ | | 500 |
| 4427.9810 | 4 427.97+ | | 150 | 4595.2490 | 4 595.245+ | | 500 |
| 4432.5166 | 4 432.514+ | | 200 | 4604.0950 | 4 604.10+ | | 150 |
| 4433.7239 | 4 433.724+ | | 700 | 4609.3650 | 4 609.372+ | | 300 |
| 4444.9780 | 4 444.97+ | | 300 | 4609.9100 | 4 609.912+ | | 1500 |

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|-----------|-------------|-----------|-------|-----------|-------------|-----------|-------|
| 4614.3910 | 4 614.391+ | | 1000 | 4800.1110 | 4 800.110+ | | 150 |
| 4617.8370 | 4 617.839+ | | 700 | 4810.0640 | 4 810.0626+ | | 1500 |
| 4628.3113 | 4 628.311+ | | 1500 | 4810.6392 | 4 810.6355+ | | 1000 |
| 4628.4600 | 4 628.480+ | | 300 | 4814.3380 | 4 814.338+ | | 500 |
| 4636.1250 | 4 636.125+ | | 700 | 4817.6386 | 4 817.6381+ | | 3000 |
| 4636.6362 | 4 636.636+ | | 700 | 4818.7847 | 4 818.783+ | | 1500 |
| 4636.9740 | 4 636.973+ | | 500 | 4819.9370 | 4 819.9290+ | | 700 |
| 4639.5910 | 4 639.593+ | | 300 | 4821.9218 | 4 821.9214+ | | 3000 |
| 4640.4430 | 4 640.464+ | | 700 | 4823.1725 | 4 823.172+ | | 1000 |
| 4644.8330 | 4 644.829+ | | 400 | 4823.3700 | 4 823.351+ | | 500 |
| 4645.4180 | 4 645.4172+ | | 3000 | 4825.5290 | 4 825.518+ | | 500 |
| 4649.9040 | 4 649.9065+ | | 700 | 4827.3380 | 4 827.3382+ | 4827.338 | 10000 |
| 4652.1010 | 4 652.105+ | | 300 | 4827.5870 | 4 827.5871+ | | 3000 |
| 4653.6990 | 4 653.717+ | | 500 | 4837.3139 | 4 837.3128+ | | 5000 |
| 4656.3936 | 4 656.3926+ | | 3000 | 4842.9410 | 4 842.928+ | | 500 |
| 4661.1054 | 4 661.1046+ | | 1500 | 4845.1450 | 4 845.139+ | | 150 |
| 4663.0920 | 4 663.092+ | | 400 | 4849.5300 | 4 849.528+ | | 300 |
| 4663.5180 | 4 663.52+ | | 200 | 4851.5010 | 4 851.499+ | | 600 |
| 4666.6540 | 4 666.680+ | | 500 | 4852.6550 | 4 852.6547+ | | 1000 |
| 4667.3643 | 4 667.365+ | | 1000 | 4859.6040 | 4 859.606+ | | 150 |
| 4670.8840 | 4 670.884+ | | 700 | 4863.0810 | 4 863.0767+ | | 1000 |
| 4678.2180 | 4 678.218+ | | 3000 | 4864.3729 | 4 864.3717+ | | 300 |
| 4678.6107 | 4 678.609+ | | 500 | 4865.5065 | 4 865.5011+ | | 1000 |
| 4679.1350 | 4 679.136+ | | 1500 | 4866.4760 | 4 866.4761+ | | 800 |
| 4680.3670 | 4 680.367+ | | 1000 | 4867.0189 | 4 867.0168+ | | 700 |
| 4681.2000 | 4 681.200+ | | 500 | 4868.2766 | 4 868.2683+ | | 700 |
| 4681.9300 | 4 681.925+ | | 200 | 4883.4030 | 4 883.4073+ | | 150 |
| 4682.1460 | 4 682.153+ | | 200 | 4884.9170 | 4 884.9181+ | 4884.915 | 10000 |
| 4683.7640 | 4 683.778+ | | 300 | 4885.0971 | 4 885.0940+ | | 1000 |
| 4687.6710 | 4 687.6706+ | | 1000 | 4892.0900 | 4 892.0896+ | | 5000 |
| 4691.5800 | 4 691.583+ | | 150 | 4897.9240 | 4 897.9214+ | | 700 |
| 4695.3630 | 4 695.35+ | | 200 | 4899.0130 | 4 899.0122+ | | 500 |
| 4702.5305 | 4 702.5289+ | | 1500 | 4928.2350 | 4 928.2397+ | | 700 |
| 4704.3949 | 4 704.3948+ | 4704.395 | 15000 | 4930.9440 | 4 930.9547+ | | 500 |
| 4708.8594 | 4 708.8584+ | 4708.854 | 12000 | 4939.0410 | 4 939.0431+ | | 1000 |
| 4710.0650 | 4 710.0638+ | 4710.058 | 10000 | 4944.9870 | 4 944.9874+ | | 1000 |
| 4710.4881 | 4 710.487+ | | 300 | 4955.3905 | 4 955.3896+ | | 1500 |
| 4712.0633 | 4 712.0625+ | 4712.06 | 15000 | 4957.0335 | 4 957.0324+ | 4957.0334 | 10000 |
| 4714.3397 | 4 714.3386+ | | 700 | 4957.1220 | 4 957.1265+ | | 1500 |
| 4715.1248 | 4 715.1239+ | | 300 | 4973.5555 | 4 973.5533+ | | 1000 |
| 4715.2580 | 4 715.2539+ | | 300 | 4974.7600 | 4 974.773+ | | 500 |
| 4715.3440 | 4 715.3441+ | 4715.344 | 15000 | 4994.9300 | 4 994.9281+ | | 1500 |
| 4717.6085 | 4 717.6092+ | | 700 | 4997.4820 | 4 997.4858+ | | 150 |
| 4721.5337 | 4 721.536+ | | 700 | 5005.1587 | 5 005.1582+ | 5005.16 | 5000 |
| 4722.7140 | 4 722.720+ | | 150 | 5005.3467 | 5 005.3428+ | | 500 |
| 4725.1450 | 4 725.146+ | | 700 | 5011.0030 | 5 011.010+ | | 250 |
| 4749.5754 | 4 749.5745+ | | 3000 | 5022.8700 | 5 022.8639+ | | 250 |
| 4750.6826 | 4 750.687+ | | 300 | 5031.3484 | 5 031.3481+ | | 2500 |
| 4751.8020 | 4 751.8012+ | | 300 | 5036.0016 | 5 035.9924+ | | 350 |
| 4752.7320 | 4 752.7311+ | 4752.7313 | 5000 | 5037.7512 | 5 037.7504+ | 5037.7505 | 5000 |
| 4754.4400 | 4 754.4404+ | | 1000 | 5042.8530 | 5 042.8479+ | | 150 |
| 4758.7280 | 4 758.7268+ | | 1500 | 5045.8160 | 5 045.8204+ | | 150 |
| 4780.3380 | 4 780.338+ | | 3000 | 5052.9443 | 5 052.9414+ | | 250 |
| 4780.8840 | 4 780.881+ | | 300 | 5074.2007 | 5 074.1996+ | | 350 |
| 4788.9258 | 4 788.9249+ | 4788.9258 | 10000 | 5076.5971 | 5 076.5898+ | | 350 |
| 4789.5982 | 4 789.592+ | | 1000 | 5078.7693 | 5 078.7645+ | | 150 |
| 4790.2195 | 4 790.2171+ | 4790.218 | 5000 | 5080.3830 | 5 080.3836+ | | 1500 |
| 4790.7280 | 4 790.7185+ | | 300 | 5081.3600 | 5 081.3801+ | | 150 |

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|-----------|-------------|-----------|-------|-----------|-------------|-----------|-------|
| 5083.9773 | 5 083.9671+ | | 250 | 5562.7662 | 5 562.7668+ | 5562.769 | 5000 |
| 5099.0522 | 5 099.0482+ | | 250 | 5563.0531 | 5 563.0534+ | | 750 |
| 5104.7011 | 5 104.6991+ | | 350 | 5576.0394 | 5 576.0386+ | | 350 |
| 5113.6724 | 5 113.6710+ | | 750 | 5589.3472 | 5 589.3514+ | | 500 |
| 5116.5032 | 5 116.5021+ | | 1500 | 5652.5664 | 5 652.566+ | | 750 |
| 5117.0246 | 5 117.0198+ | | 350 | 5656.0258 | 5 656.025+ | | 750 |
| 5120.5059 | 5 120.5012+ | | 250 | 5656.6588 | 5 656.658+ | 5656.658 | 5000 |
| 5122.2565 | 5 122.2552+ | | 1500 | 5662.5489 | 5 662.548+ | | 750 |
| 5122.3613 | 5 122.3557+ | | 1500 | 5684.6470 | 5 684.662+ | | 250 |
| 5144.9384 | 5 144.9371+ | 5144.9376 | 5000 | 5689.8163 | 5 689.816+ | | 1500 |
| 5145.0110 | 5 145.0308+ | 5145.011 | 5000 | 5715.3409 | 5 715.345+ | | 350 |
| 5145.1351 | 5 145.1322+ | | 350 | 5718.8798 | 5 718.882+ | | 1500 |
| 5150.0842 | 5 150.0790+ | | 350 | 5719.2248 | 5 719.226+ | 5719.2254 | 5000 |
| 5151.9610 | 5 151.9612+ | | 750 | 5719.5300 | 5 719.528+ | | 750 |
| 5154.4271 | 5 154.4252+ | | 500 | 5748.2985 | 5 748.298+ | | 5000 |
| 5156.6672 | 5 156.6670+ | | 500 | 5748.6446 | 5 748.649+ | 5748.299 | 700 |
| 5158.9018 | 5 158.9000+ | | 500 | 5760.5885 | 5 760.588+ | | 700 |
| 5188.6122 | 5 188.6121+ | | 1500 | 5764.4188 | 5 764.419+ | 5764.419 | 7000 |
| 5191.3223 | 5 191.3208+ | | 350 | 5770.3067 | 5 770.313+ | | 500 |
| 5193.1251 | 5 193.1238+ | | 1500 | 5804.0900 | 5 804.092+ | | 750 |
| 5193.2240 | 5 193.2270+ | | 1500 | 5804.4496 | 5 804.450+ | 5804.4488 | 5000 |
| 5203.8962 | 5 203.8951+ | | 1500 | 5811.4066 | 5 811.406+ | | 3000 |
| 5208.8648 | 5 208.8636+ | | 700 | 5816.6219 | 5 816.622+ | | 500 |
| 5210.5672 | 5 210.5667+ | | 500 | 5820.1558 | 5 820.155+ | 5820.155 | 5000 |
| 5214.3389 | 5 214.3363+ | | 350 | 5828.9063 | 5 828.907+ | | 750 |
| 5222.3517 | 5 222.3519+ | | 500 | 5852.4878 | 5 852.49 | 5852.4878 | 20000 |
| 5234.0271 | 5 234.0276+ | | 500 | 5868.4165 | 5 868.416+ | | 750 |
| 5274.0393 | 5 274.0406+ | | 400 | 5872.1450 | 5 872.144+ | | 750 |
| 5280.0853 | 5 280.0863+ | | 500 | 5872.8275 | 5 872.826+ | 5872.828 | 5000 |
| 5298.1891 | 5 298.1891+ | | 1500 | 5881.8950 | 5 881.90 | 5881.895 | 10000 |
| 5304.7580 | 5 304.7573+ | | 700 | 5898.3287 | 5 898.329+ | | 200 |
| 5314.7851 | 5 314.7859+ | | 300 | 5902.4623 | 5 902.462+ | | 500 |
| 5316.8046 | 5 316.8048+ | | 250 | 5906.4294 | 5 906.428+ | | 500 |
| 5326.3960 | 5 326.3952+ | | 750 | 5913.6330 | 5 913.631+ | | 2500 |
| 5330.7775 | 5 330.7771+ | 5330.779 | 6000 | 5918.9068 | 5 918.906+ | | 2500 |
| 5333.3083 | 5 333.3057+ | | 500 | 5934.4522 | 5 934.454+ | | 750 |
| 5341.0938 | 5 341.0932+ | 5341.096 | 10000 | 5939.3154 | 5 939.317+ | | 500 |
| 5343.2834 | 5 343.2820+ | 5343.284 | 6000 | 5944.8340 | 5 944.83 | 5944.8342 | 5000 |
| 5349.2038 | 5 349.2021+ | | 1500 | 5961.6228 | 5 961.622+ | | 700 |
| 5355.1640 | 5 355.1621+ | | 1500 | 5965.4710 | 5 965.470+ | 5965.474 | 5000 |
| 5355.4236 | 5 355.4214+ | | 1500 | 5966.1790 | 5 966.174+ | | 350 |
| 5360.0121 | 5 360.0109+ | | 1500 | 5974.6273 | 5 974.628+ | 5974.628 | 5000 |
| 5360.4271 | 5 360.4238+ | | 350 | 5975.5343 | 5 975.53 | 5975.534 | 6000 |
| 5362.2334 | 5 362.2275+ | | 250 | 5987.9074 | 5 987.907+ | | 1500 |
| 5366.2169 | 5 366.2198+ | | 250 | 5991.6477 | 5 991.650+ | | 750 |
| 5372.3110 | 5 372.3110+ | | 750 | 6000.9275 | 6 000.926+ | | 1000 |
| 5374.9750 | 5 374.9754+ | | 500 | 6029.9968 | 6 030.00 | 6029.9971 | 10000 |
| 5383.2457 | 5 383.2461+ | | 250 | 6042.0130 | 6 041.988+ | | 150 |
| 5400.5616 | 5 400.56 | 5400.562 | 20000 | 6046.1348 | 6 046.133+ | | 500 |
| 5412.6490 | 5 412.6481+ | | 2500 | 6064.5359 | 6 064.536+ | | 500 |
| 5418.5584 | 5 418.5577+ | | 1500 | 6074.3376 | 6 074.34 | 6074.3377 | 10000 |
| 5420.1550 | 5 420.1538+ | | 500 | 6096.1630 | 6 096.16 | | 3000 |
| 5433.6513 | 5 433.6499+ | | 2500 | 6118.0187 | 6 118.014+ | | 150 |
| 5448.5091 | 5 448.5085+ | | 1500 | 6128.4498 | 6 128.45 | | 1000 |
| 5494.4158 | 5 494.4161+ | | 500 | 6142.5080 | 6 142.506+ | | 1000 |
| 5507.3442 | 5 507.3415+ | | 250 | 6143.0627 | 6 143.06 | 6143.0623 | 10000 |
| 5511.4850 | 5 511.4953+ | | 150 | 6150.2985 | 6 150.296+ | | 1000 |
| 5533.6788 | 5 533.6791+ | | 750 | 6156.1380 | 6 156.139+ | | 500 |
| 5538.6510 | 5 538.6518+ | | 500 | 6163.5937 | 6 163.59 | 6163.593 | 10000 |
| 5559.0978 | 5 559.0956+ | | 350 | 6172.8156 | 6 172.822+ | | 150 |
| 5562.4416 | 5 562.4415+ | | 1500 | 6174.8829 | 6 174.882+ | | 700 |

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|-----------|------------|-----------|--------|
| 6175.2842 | 6 175.287+ | | 500 |
| 6182.1460 | 6 182.146+ | | 1500 |
| 6189.0649 | 6 189.066+ | | 700 |
| 6193.0663 | 6 193.066+ | | 500 |
| 6202.9740 | 6 202.976+ | | 150 |
| 6205.7775 | 6 205.777+ | | 1000 |
| 6213.8758 | 6 213.876+ | | 1500 |
| 6217.2812 | 6 217.28 | 6217.2813 | 10000 |
| 6225.7350 | 6 225.737+ | | 500 |
| 6246.7294 | 6 246.727+ | | 1000 |
| 6258.7884 | 6 258.790+ | | 1000 |
| 6266.4952 | 6 266.50 | 6266.495 | 10000 |
| 6273.0141 | 6 273.015+ | | 700 |
| 6276.0327 | 6 276.034+ | | 500 |
| 6293.7447 | 6 293.744+ | | 1000 |
| 6304.7893 | 6 304.79 | | 1000 |
| 6313.6855 | 6 313.688+ | | 1500 |
| 6328.1646 | 6 328.164+ | | 3000 |
| 6330.8894 | 6 330.893+ | | 1500 |
| 6334.4276 | 6 334.43 | 6334.427 | 10000 |
| 6351.8532 | 6 351.855+ | | 1000 |
| 6364.9963 | 6 364.997+ | | 1000 |
| 6382.9914 | 6 382.99 | 6382.9914 | 10000 |
| 6401.0760 | 6 401.075+ | | 1000 |
| 6402.2480 | 6 402.247+ | 6402.2455 | 20000 |
| 6409.7469 | 6 409.749+ | | 1500 |
| 6421.7044 | 6 421.705+ | | 1000 |
| 6444.7118 | 6 444.710+ | | 1500 |
| 6506.5277 | 6 506.53 | 6506.5279 | 15000 |
| 6532.8824 | 6 532.88 | | 1000 |
| 6598.9528 | 6 598.95 | 6598.9529 | 10000 |
| 6602.9007 | 6 602.902+ | | 1000 |
| 6652.0925 | 6 652.09 | | 1500 |
| 6666.8920 | 6 666.891+ | | 1000 |
| 6678.2766 | 6 678.28 | 6678.2764 | 5000 |
| 6717.0430 | 6 717.04 | | 700 |
| 6738.0320 | 6 738.032+ | | 700 |
| 6759.5821 | 6 759.586+ | | 150 |
| 6929.4672 | 6 929.47 | 6929.4678 | 100000 |
| 7024.0500 | 7 024.05 | 7024.0508 | 34000 |
| 7032.4128 | 7 032.41 | 7032.4127 | 85000 |
| 7051.2922 | 7 051.29 | | 2200 |
| 7059.1079 | 7 059.11 | | 10000 |
| 7173.9380 | 7 173.94 | 7173.9389 | 77000 |