## Molecular Oxygen

Z = 16 Molecular Mass : $M_{\rm A} = 31.9988$

$\sigma_a(\mathrm{Mb}) = 109.76097 \, \dfrac{\mathrm{d}f}{\mathrm{d}E} \, (\mathrm{eV}^{-1})$

$\mu_m = \sigma_a \cdot N_{\rm A} \cdot M_{\rm A}^{-1}$

Table I. Oscillator strength, $f_n$, for sub-ionization transitions between 9.75 and 12.07 eV and a resonance transition around the K-edge.

| Energy (eV) | $f_n$ | $\lambda$ (Å) |
|---|---|---|
| 9.75 − 10.17 | 0.00833 | 1.2716E+03 − 1.2191E+03 |
| 10.17 − 10.44 | 0.00707 | 1.2191E+03 − 1.1876E+03 |
| 10.44 − 10.62 | 0.00077 | 1.1876E+03 − 1.1675E+03 |
| 10.62 − 10.71 | 0.00066 | 1.1675E+03 − 1.1576E+03 |
| 10.71 − 10.84 | 0.00140 | 1.1576E+03 − 1.1438E+03 |
| 10.84 − 10.98 | 0.00081 | 1.1438E+03 − 1.1292E+03 |
| 10.98 − 11.17 | 0.00076 | 1.1292E+03 − 1.1100E+03 |
| 11.17 − 11.33 | 0.00050 | 1.1100E+03 − 1.0943E+03 |
| 11.33 − 11.52 | 0.00147 | 1.0943E+03 − 1.0763E+03 |
| 11.52 − 11.59 | 0.000419 | 1.0763E+03 − 1.0698E+03 |
| 11.59 − 12.07 | 0.005496 | 1.0698E+03 − 1.0272E+03 |
| 5.3090E+02 | 5.4891E-02 | 2.3353E+01 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\rm a}$, and mass absorption coefficient, $\mu_{\rm m}$.

| Energy (eV) | $f_n$ (eV$^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\rm m}$ (cm$^2$ g$^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 7.1250E+00 | 2.5355E-03 | 2.7829E-01 | 5.2375E+03 | 1.7401E+03 |
| 7.2000E+00 | 5.0253E-03 | 5.5158E-01 | 1.0381E+04 | 1.7220E+03 |
| 7.3000E+00 | 8.1080E-03 | 8.8994E-01 | 1.6749E+04 | 1.6984E+03 |
| 7.4000E+00 | 1.2331E-02 | 1.3534E+00 | 2.5471E+04 | 1.6755E+03 |
| 7.5000E+00 | 1.8040E-02 | 1.9801E+00 | 3.7265E+04 | 1.6531E+03 |
| 7.6000E+00 | 2.7024E-02 | 2.9661E+00 | 5.5822E+04 | 1.6314E+03 |
| 7.7000E+00 | 3.5807E-02 | 3.9302E+00 | 7.3965E+04 | 1.6102E+03 |
| 7.8000E+00 | 4.9487E-02 | 5.4318E+00 | 1.0223E+05 | 1.5895E+03 |
| 7.9000E+00 | 6.0805E-02 | 6.6741E+00 | 1.2561E+05 | 1.5694E+03 |
| 8.0000E+00 | 7.3300E-02 | 8.0455E+00 | 1.5142E+05 | 1.5498E+03 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 8.1000E+00 | 8.5969E-02 | 9.4360E+00 | 1.7758E+05 | 1.5307E+03 |
| 8.2000E+00 | 9.6776E-02 | 1.0622E+01 | 1.9991E+05 | 1.5120E+03 |
| 8.3000E+00 | 1.0809E-01 | 1.1865E+01 | 2.2329E+05 | 1.4938E+03 |
| 8.4000E+00 | 1.1839E-01 | 1.2995E+01 | 2.4456E+05 | 1.4760E+03 |
| 8.5000E+00 | 1.2431E-01 | 1.3644E+01 | 2.5679E+05 | 1.4586E+03 |
| 8.6000E+00 | 1.2836E-01 | 1.4089E+01 | 2.6515E+05 | 1.4417E+03 |
| 8.7000E+00 | 1.2903E-01 | 1.4163E+01 | 2.6655E+05 | 1.4251E+03 |
| 8.8000E+00 | 1.2836E-01 | 1.4089E+01 | 2.6515E+05 | 1.4089E+03 |
| 8.9000E+00 | 1.2380E-01 | 1.3588E+01 | 2.5573E+05 | 1.3931E+03 |
| 9.0000E+00 | 1.1519E-01 | 1.2643E+01 | 2.3795E+05 | 1.3776E+03 |
| 9.1000E+00 | 8.9516E-02 | 9.8254E+00 | 1.8491E+05 | 1.3625E+03 |
| 9.2000E+00 | 4.7289E-02 | 5.1905E+00 | 9.7685E+04 | 1.3477E+03 |
| 9.2530E+00 | 2.1615E-02 | 2.3725E+00 | 4.4650E+04 | 1.3399E+03 |
| 9.3000E+00 | 2.1953E-02 | 2.4096E+00 | 4.5348E+04 | 1.3332E+03 |
| 9.4000E+00 | 1.0133E-02 | 1.1122E+00 | 2.0931E+04 | 1.3190E+03 |
| 9.5000E+00 | 2.8729E-03 | 3.1533E-01 | 5.9346E+03 | 1.3051E+03 |
| 9.6000E+00 | 4.5602E-03 | 5.0053E-01 | 9.4199E+03 | 1.2915E+03 |
| 9.7000E+00 | 1.6873E-03 | 1.8520E-01 | 3.4854E+03 | 1.2782E+03 |
| 9.7500E+00 | 0.0000E+00 | 0.0000E+00 | 0.0000E+00 | 1.2716E+03 |
| 1.2070E+01 | 2.6995E-02 | 2.9630E+00 | 5.5764E+04 | 1.0272E+03 |
| 1.2091E+01 | 6.7168E-02 | 7.3724E+00 | 1.3875E+05 | 1.0254E+03 |
| 1.2100E+01 | 2.3701E-02 | 2.6014E+00 | 4.8959E+04 | 1.0247E+03 |
| 1.2155E+01 | 1.6014E-02 | 1.7577E+00 | 3.3080E+04 | 1.0200E+03 |
| 1.2216E+01 | 2.1871E-02 | 2.4005E+00 | 4.5178E+04 | 1.0149E+03 |
| 1.2228E+01 | 4.3924E-03 | 4.8212E-01 | 9.0734E+03 | 1.0139E+03 |
| 1.2243E+01 | 2.0407E-02 | 2.2398E+00 | 4.2154E+04 | 1.0127E+03 |
| 1.2290E+01 | 7.3207E-03 | 8.0353E-01 | 1.5122E+04 | 1.0088E+03 |
| 1.2304E+01 | 2.4067E-02 | 2.6416E+00 | 4.9715E+04 | 1.0077E+03 |
| 1.2315E+01 | 1.2445E-02 | 1.3660E+00 | 2.5708E+04 | 1.0068E+03 |
| 1.2323E+01 | 2.5531E-02 | 2.8023E+00 | 5.2739E+04 | 1.0061E+03 |
| 1.2337E+01 | 2.1871E-02 | 2.4005E+00 | 4.5178E+04 | 1.0050E+03 |
| 1.2347E+01 | 6.1311E-02 | 6.7296E+00 | 1.2665E+05 | 1.0042E+03 |
| 1.2363E+01 | 4.0081E-02 | 4.3993E+00 | 8.2795E+04 | 1.0029E+03 |
| 1.2372E+01 | 1.4550E-02 | 1.5970E+00 | 3.0056E+04 | 1.0021E+03 |
| 1.2381E+01 | 3.0656E-02 | 3.3648E+00 | 6.3325E+04 | 1.0014E+03 |
| 1.2386E+01 | 9.5169E-03 | 1.0446E+00 | 1.9659E+04 | 1.0010E+03 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2$ $\mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.2406E+01 | 2.2603E-02 | 2.4809E+00 | 4.6690E+04 | 9.9936E+02 |
| 1.2426E+01 | 1.5282E-02 | 1.6774E+00 | 3.1568E+04 | 9.9776E+02 |
| 1.2447E+01 | 2.3335E-02 | 2.5613E+00 | 4.8203E+04 | 9.9608E+02 |
| 1.2466E+01 | 6.5704E-02 | 7.2117E+00 | 1.3572E+05 | 9.9456E+02 |
| 1.2480E+01 | 2.1633E-01 | 2.3744E+01 | 4.4687E+05 | 9.9348E+02 |
| 1.2488E+01 | 1.9482E-01 | 2.1384E+01 | 4.0244E+05 | 9.9280E+02 |
| 1.2500E+01 | 3.3950E-02 | 3.7264E+00 | 7.0130E+04 | 9.9184E+02 |
| 1.2516E+01 | 3.1388E-02 | 3.4451E+00 | 6.4837E+04 | 9.9064E+02 |
| 1.2531E+01 | 2.1139E-02 | 2.3202E+00 | 4.3666E+04 | 9.8944E+02 |
| 1.2553E+01 | 3.6512E-02 | 4.0076E+00 | 7.5423E+04 | 9.8768E+02 |
| 1.2578E+01 | 7.8057E-02 | 8.5676E+00 | 1.6124E+05 | 9.8576E+02 |
| 1.2593E+01 | 4.4839E-02 | 4.9216E+00 | 9.2624E+04 | 9.8456E+02 |
| 1.2599E+01 | 8.7574E-02 | 9.6122E+00 | 1.8090E+05 | 9.8408E+02 |
| 1.2609E+01 | 4.3055E-01 | 4.7258E+01 | 8.8938E+05 | 9.8328E+02 |
| 1.2628E+01 | 6.9364E-02 | 7.6134E+00 | 1.4328E+05 | 9.8184E+02 |
| 1.2630E+01 | 3.3950E-02 | 3.7264E+00 | 7.0130E+04 | 9.8168E+02 |
| 1.2645E+01 | 2.4067E-02 | 2.6416E+00 | 4.9715E+04 | 9.8048E+02 |
| 1.2651E+01 | 3.6512E-02 | 4.0076E+00 | 7.5423E+04 | 9.8000E+02 |
| 1.2680E+01 | 2.2603E-02 | 2.4809E+00 | 4.6690E+04 | 9.7782E+02 |
| 1.2695E+01 | 5.1794E-02 | 5.6850E+00 | 1.0699E+05 | 9.7661E+02 |
| 1.2711E+01 | 2.4131E-01 | 2.6486E+01 | 4.9847E+05 | 9.7540E+02 |
| 1.2724E+01 | 6.0579E-02 | 6.6492E+00 | 1.2514E+05 | 9.7444E+02 |
| 1.2742E+01 | 4.5462E-01 | 4.9899E+01 | 9.3910E+05 | 9.7306E+02 |
| 1.2758E+01 | 7.5861E-02 | 8.3266E+00 | 1.5671E+05 | 9.7181E+02 |
| 1.2776E+01 | 2.2603E-02 | 2.4809E+00 | 4.6690E+04 | 9.7048E+02 |
| 1.2802E+01 | 2.8459E-02 | 3.1237E+00 | 5.8788E+04 | 9.6847E+02 |
| 1.2818E+01 | 9.8464E-02 | 1.0807E+01 | 2.0340E+05 | 9.6726E+02 |
| 1.2837E+01 | 4.5022E-01 | 4.9417E+01 | 9.3002E+05 | 9.6581E+02 |
| 1.2849E+01 | 3.6265E-01 | 3.9805E+01 | 7.4912E+05 | 9.6496E+02 |
| 1.2864E+01 | 9.9562E-02 | 1.0928E+01 | 2.0566E+05 | 9.6379E+02 |
| 1.2879E+01 | 5.3990E-02 | 5.9260E+00 | 1.1153E+05 | 9.6266E+02 |
| 1.2893E+01 | 1.4815E-01 | 1.6261E+01 | 3.0604E+05 | 9.6161E+02 |
| 1.2908E+01 | 5.4722E-02 | 6.0064E+00 | 1.1304E+05 | 9.6052E+02 |
| 1.2925E+01 | 2.6995E-02 | 2.9630E+00 | 5.5764E+04 | 9.5928E+02 |
| 1.2942E+01 | 7.0828E-02 | 7.7742E+00 | 1.4631E+05 | 9.5798E+02 |
| 1.2949E+01 | 1.2875E-01 | 1.4132E+01 | 2.6596E+05 | 9.5746E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.2958E+01 | 3.3053E-01 | 3.6279E+01 | 6.8277E+05 | 9.5682E+02 |
| 1.2964E+01 | 3.0720E-01 | 3.3718E+01 | 6.3457E+05 | 9.5635E+02 |
| 1.2970E+01 | 5.5564E-01 | 6.0988E+01 | 1.1478E+06 | 9.5595E+02 |
| 1.2989E+01 | 1.0725E-01 | 1.1772E+01 | 2.2154E+05 | 9.5452E+02 |
| 1.2993E+01 | 4.3741E-02 | 4.8011E+00 | 9.0356E+04 | 9.5421E+02 |
| 1.3009E+01 | 3.2120E-02 | 3.5255E+00 | 6.6349E+04 | 9.5310E+02 |
| 1.3021E+01 | 4.2277E-02 | 4.6404E+00 | 8.7332E+04 | 9.5222E+02 |
| 1.3056E+01 | 4.1545E-02 | 4.5600E+00 | 8.5819E+04 | 9.4960E+02 |
| 1.3067E+01 | 9.7732E-02 | 1.0727E+01 | 2.0188E+05 | 9.4881E+02 |
| 1.3082E+01 | 5.3341E-01 | 5.8547E+01 | 1.1019E+06 | 9.4778E+02 |
| 1.3105E+01 | 1.1457E-01 | 1.2575E+01 | 2.3666E+05 | 9.4611E+02 |
| 1.3109E+01 | 5.2526E-02 | 5.7653E+00 | 1.0850E+05 | 9.4583E+02 |
| 1.3116E+01 | 3.2120E-02 | 3.5255E+00 | 6.6349E+04 | 9.4532E+02 |
| 1.3139E+01 | 3.9074E-02 | 4.2888E+00 | 8.0716E+04 | 9.4365E+02 |
| 1.3156E+01 | 5.1062E-02 | 5.6046E+00 | 1.0548E+05 | 9.4238E+02 |
| 1.3171E+01 | 4.3741E-02 | 4.8011E+00 | 9.0356E+04 | 9.4135E+02 |
| 1.3185E+01 | 8.1718E-02 | 8.9694E+00 | 1.6880E+05 | 9.4032E+02 |
| 1.3190E+01 | 1.7259E-01 | 1.8943E+01 | 3.5651E+05 | 9.4000E+02 |
| 1.3201E+01 | 4.5755E-01 | 5.0221E+01 | 9.4515E+05 | 9.3921E+02 |
| 1.3221E+01 | 6.2043E-02 | 6.8099E+00 | 1.2816E+05 | 9.3778E+02 |
| 1.3233E+01 | 4.3741E-02 | 4.8011E+00 | 9.0356E+04 | 9.3690E+02 |
| 1.3267E+01 | 4.6304E-02 | 5.0823E+00 | 9.5649E+04 | 9.3452E+02 |
| 1.3275E+01 | 5.9847E-02 | 6.5689E+00 | 1.2363E+05 | 9.3397E+02 |
| 1.3286E+01 | 7.1469E-02 | 7.8445E+00 | 1.4763E+05 | 9.3317E+02 |
| 1.3300E+01 | 2.8679E-01 | 3.1478E+01 | 5.9242E+05 | 9.3218E+02 |
| 1.3304E+01 | 1.6710E-01 | 1.8341E+01 | 3.4517E+05 | 9.3190E+02 |
| 1.3316E+01 | 1.2335E-01 | 1.3539E+01 | 2.5481E+05 | 9.3111E+02 |
| 1.3323E+01 | 1.4815E-01 | 1.6261E+01 | 3.0604E+05 | 9.3060E+02 |
| 1.3326E+01 | 3.0427E-01 | 3.3397E+01 | 6.2852E+05 | 9.3040E+02 |
| 1.3339E+01 | 5.1428E-02 | 5.6448E+00 | 1.0623E+05 | 9.2952E+02 |
| 1.3382E+01 | 5.3990E-02 | 5.9260E+00 | 1.1153E+05 | 9.2651E+02 |
| 1.3400E+01 | 1.0139E-01 | 1.1129E+01 | 2.0944E+05 | 9.2524E+02 |
| 1.3414E+01 | 2.1743E-01 | 2.3865E+01 | 4.4913E+05 | 9.2428E+02 |
| 1.3421E+01 | 1.7259E-01 | 1.8943E+01 | 3.5651E+05 | 9.2381E+02 |
| 1.3429E+01 | 8.7574E-02 | 9.6122E+00 | 1.8090E+05 | 9.2325E+02 |
| 1.3437E+01 | 9.9196E-02 | 1.0888E+01 | 2.0491E+05 | 9.2270E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.3454E+01 | 5.6187E-02 | 6.1671E+00 | 1.1606E+05 | 9.2151E+02 |
| 1.3484E+01 | 5.2526E-02 | 5.7653E+00 | 1.0850E+05 | 9.1952E+02 |
| 1.3500E+01 | 8.4646E-02 | 9.2908E+00 | 1.7485E+05 | 9.1839E+02 |
| 1.3513E+01 | 2.4158E-01 | 2.6516E+01 | 4.9904E+05 | 9.1751E+02 |
| 1.3532E+01 | 7.8789E-02 | 8.6480E+00 | 1.6275E+05 | 9.1622E+02 |
| 1.3541E+01 | 5.6553E-02 | 6.2073E+00 | 1.1682E+05 | 9.1562E+02 |
| 1.3555E+01 | 7.8789E-02 | 8.6480E+00 | 1.6275E+05 | 9.1466E+02 |
| 1.3566E+01 | 5.2526E-02 | 5.7653E+00 | 1.0850E+05 | 9.1390E+02 |
| 1.3573E+01 | 6.7168E-02 | 7.3724E+00 | 1.3875E+05 | 9.1349E+02 |
| 1.3582E+01 | 4.8866E-02 | 5.3636E+00 | 1.0094E+05 | 9.1285E+02 |
| 1.3605E+01 | 6.5704E-02 | 7.2117E+00 | 1.3572E+05 | 9.1132E+02 |
| 1.3613E+01 | 8.9770E-02 | 9.8533E+00 | 1.8544E+05 | 9.1076E+02 |
| 1.3618E+01 | 1.5904E-01 | 1.7457E+01 | 3.2853E+05 | 9.1044E+02 |
| 1.3628E+01 | 1.3717E-01 | 1.5056E+01 | 2.8336E+05 | 9.0976E+02 |
| 1.3635E+01 | 1.5328E-01 | 1.6824E+01 | 3.1662E+05 | 9.0932E+02 |
| 1.3651E+01 | 6.6070E-02 | 7.2519E+00 | 1.3648E+05 | 9.0827E+02 |
| 1.3672E+01 | 4.5572E-02 | 5.0020E+00 | 9.4137E+04 | 9.0683E+02 |
| 1.3706E+01 | 6.6436E-02 | 7.2920E+00 | 1.3724E+05 | 9.0458E+02 |
| 1.3715E+01 | 8.9770E-02 | 9.8533E+00 | 1.8544E+05 | 9.0402E+02 |
| 1.3731E+01 | 9.6725E-02 | 1.0617E+01 | 1.9980E+05 | 9.0297E+02 |
| 1.3739E+01 | 7.4397E-02 | 8.1659E+00 | 1.5368E+05 | 9.0241E+02 |
| 1.3763E+01 | 1.3278E-01 | 1.4574E+01 | 2.7428E+05 | 9.0088E+02 |
| 1.3776E+01 | 7.0462E-02 | 7.7340E+00 | 1.4555E+05 | 9.0000E+02 |
| 1.3795E+01 | 5.2526E-02 | 5.7653E+00 | 1.0850E+05 | 8.9874E+02 |
| 1.3817E+01 | 5.9847E-02 | 6.5689E+00 | 1.2363E+05 | 8.9732E+02 |
| 1.3823E+01 | 8.0253E-02 | 8.8087E+00 | 1.6578E+05 | 8.9696E+02 |
| 1.3846E+01 | 5.6187E-02 | 6.1671E+00 | 1.1606E+05 | 8.9542E+02 |
| 1.3864E+01 | 9.9196E-02 | 1.0888E+01 | 2.0491E+05 | 8.9432E+02 |
| 1.3872E+01 | 1.0725E-01 | 1.1772E+01 | 2.2154E+05 | 8.9379E+02 |
| 1.3891E+01 | 5.9115E-02 | 6.4885E+00 | 1.2211E+05 | 8.9258E+02 |
| 1.3913E+01 | 1.0615E-01 | 1.1651E+01 | 2.1927E+05 | 8.9112E+02 |
| 1.3934E+01 | 5.3258E-02 | 5.8457E+00 | 1.1002E+05 | 8.8982E+02 |
| 1.3973E+01 | 5.9115E-02 | 6.4885E+00 | 1.2211E+05 | 8.8730E+02 |
| 1.3993E+01 | 9.9562E-02 | 1.0928E+01 | 2.0566E+05 | 8.8604E+02 |
| 1.4003E+01 | 1.7222E-01 | 1.8903E+01 | 3.5575E+05 | 8.8544E+02 |
| 1.4022E+01 | 5.7651E-02 | 6.3278E+00 | 1.1909E+05 | 8.8422E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.4061E+01 | 5.4722E-02 | 6.0064E+00 | 1.1304E+05 | 8.8178E+02 |
| 1.4089E+01 | 6.7168E-02 | 7.3724E+00 | 1.3875E+05 | 8.8000E+02 |
| 1.4126E+01 | 1.2592E-01 | 1.3821E+01 | 2.6010E+05 | 8.7769E+02 |
| 1.4149E+01 | 6.1311E-02 | 6.7296E+00 | 1.2665E+05 | 8.7625E+02 |
| 1.4193E+01 | 6.1311E-02 | 6.7296E+00 | 1.2665E+05 | 8.7354E+02 |
| 1.4230E+01 | 1.0359E-01 | 1.1370E+01 | 2.1398E+05 | 8.7131E+02 |
| 1.4246E+01 | 7.2933E-02 | 8.0052E+00 | 1.5066E+05 | 8.7028E+02 |
| 1.4264E+01 | 8.7574E-02 | 9.6122E+00 | 1.8090E+05 | 8.6924E+02 |
| 1.4292E+01 | 6.3507E-02 | 6.9706E+00 | 1.3119E+05 | 8.6749E+02 |
| 1.4323E+01 | 6.8632E-02 | 7.5331E+00 | 1.4177E+05 | 8.6566E+02 |
| 1.4337E+01 | 8.6842E-02 | 9.5319E+00 | 1.7939E+05 | 8.6478E+02 |
| 1.4359E+01 | 8.9770E-02 | 9.8533E+00 | 1.8544E+05 | 8.6343E+02 |
| 1.4390E+01 | 7.0462E-02 | 7.7340E+00 | 1.4555E+05 | 8.6159E+02 |
| 1.4411E+01 | 7.7325E-02 | 8.4873E+00 | 1.5973E+05 | 8.6032E+02 |
| 1.4417E+01 | 6.9638E-02 | 7.6436E+00 | 1.4385E+05 | 8.6000E+02 |
| 1.4452E+01 | 6.9181E-02 | 7.5934E+00 | 1.4291E+05 | 8.5791E+02 |
| 1.4468E+01 | 9.2882E-02 | 1.0195E+01 | 1.9186E+05 | 8.5698E+02 |
| 1.4500E+01 | 6.6893E-02 | 7.3423E+00 | 1.3818E+05 | 8.5508E+02 |
| 1.4521E+01 | 7.0096E-02 | 7.6938E+00 | 1.4480E+05 | 8.5385E+02 |
| 1.4533E+01 | 9.3797E-02 | 1.0295E+01 | 1.9376E+05 | 8.5313E+02 |
| 1.4537E+01 | 1.1100E-01 | 1.2184E+01 | 2.2929E+05 | 8.5291E+02 |
| 1.4545E+01 | 1.1054E-01 | 1.2133E+01 | 2.2835E+05 | 8.5239E+02 |
| 1.4565E+01 | 7.6136E-02 | 8.3567E+00 | 1.5727E+05 | 8.5126E+02 |
| 1.4576E+01 | 8.5652E-02 | 9.4013E+00 | 1.7693E+05 | 8.5060E+02 |
| 1.4588E+01 | 8.6385E-02 | 9.4817E+00 | 1.7844E+05 | 8.4989E+02 |
| 1.4605E+01 | 7.2018E-02 | 7.9047E+00 | 1.4877E+05 | 8.4891E+02 |
| 1.4635E+01 | 7.5678E-02 | 8.3065E+00 | 1.5633E+05 | 8.4716E+02 |
| 1.4646E+01 | 9.9653E-02 | 1.0938E+01 | 2.0585E+05 | 8.4656E+02 |
| 1.4658E+01 | 1.6353E-01 | 1.7949E+01 | 3.3780E+05 | 8.4585E+02 |
| 1.4666E+01 | 1.6279E-01 | 1.7868E+01 | 3.3628E+05 | 8.4536E+02 |
| 1.4684E+01 | 9.4803E-02 | 1.0406E+01 | 1.9583E+05 | 8.4437E+02 |
| 1.4702E+01 | 1.0633E-01 | 1.1671E+01 | 2.1965E+05 | 8.4331E+02 |
| 1.4729E+01 | 7.7325E-02 | 8.4873E+00 | 1.5973E+05 | 8.4175E+02 |
| 1.4740E+01 | 8.8215E-02 | 9.6825E+00 | 1.8222E+05 | 8.4115E+02 |
| 1.4750E+01 | 9.0136E-02 | 9.8935E+00 | 1.8619E+05 | 8.4055E+02 |
| 1.4763E+01 | 1.1933E-01 | 1.3098E+01 | 2.4649E+05 | 8.3984E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.4777E+01 | 2.2365E-01 | 2.4548E+01 | 4.6199E+05 | 8.3901E+02 |
| 1.4780E+01 | 1.9976E-01 | 2.1926E+01 | 4.1265E+05 | 8.3887E+02 |
| 1.4785E+01 | 2.1788E-01 | 2.3915E+01 | 4.5008E+05 | 8.3857E+02 |
| 1.4791E+01 | 1.8027E-01 | 1.9787E+01 | 3.7239E+05 | 8.3824E+02 |
| 1.4802E+01 | 1.0029E-01 | 1.1008E+01 | 2.0718E+05 | 8.3764E+02 |
| 1.4817E+01 | 1.2290E-01 | 1.3489E+01 | 2.5387E+05 | 8.3676E+02 |
| 1.4826E+01 | 1.5511E-01 | 1.7025E+01 | 3.2040E+05 | 8.3626E+02 |
| 1.4834E+01 | 1.4559E-01 | 1.5980E+01 | 3.0075E+05 | 8.3582E+02 |
| 1.4848E+01 | 8.9862E-02 | 9.8633E+00 | 1.8563E+05 | 8.3500E+02 |
| 1.4856E+01 | 1.0222E-01 | 1.1219E+01 | 2.1115E+05 | 8.3459E+02 |
| 1.4872E+01 | 9.4803E-02 | 1.0406E+01 | 1.9583E+05 | 8.3368E+02 |
| 1.4886E+01 | 1.3049E-01 | 1.4323E+01 | 2.6956E+05 | 8.3291E+02 |
| 1.4895E+01 | 2.9777E-01 | 3.2684E+01 | 6.1510E+05 | 8.3236E+02 |
| 1.4905E+01 | 2.5037E-01 | 2.7481E+01 | 5.1718E+05 | 8.3181E+02 |
| 1.4914E+01 | 1.9647E-01 | 2.1565E+01 | 4.0585E+05 | 8.3132E+02 |
| 1.4918E+01 | 1.2079E-01 | 1.3258E+01 | 2.4952E+05 | 8.3110E+02 |
| 1.4929E+01 | 9.7274E-02 | 1.0677E+01 | 2.0094E+05 | 8.3049E+02 |
| 1.4938E+01 | 1.2775E-01 | 1.4022E+01 | 2.6389E+05 | 8.3000E+02 |
| 1.4949E+01 | 2.0480E-01 | 2.2479E+01 | 4.2305E+05 | 8.2940E+02 |
| 1.4961E+01 | 1.7140E-01 | 1.8813E+01 | 3.5405E+05 | 8.2869E+02 |
| 1.4972E+01 | 1.0084E-01 | 1.1069E+01 | 2.0831E+05 | 8.2809E+02 |
| 1.4996E+01 | 1.1384E-01 | 1.2495E+01 | 2.3515E+05 | 8.2678E+02 |
| 1.5008E+01 | 2.6108E-01 | 2.8656E+01 | 5.3930E+05 | 8.2612E+02 |
| 1.5017E+01 | 2.3847E-01 | 2.6175E+01 | 4.9261E+05 | 8.2560E+02 |
| 1.5020E+01 | 2.6080E-01 | 2.8626E+01 | 5.3873E+05 | 8.2546E+02 |
| 1.5027E+01 | 2.2438E-01 | 2.4628E+01 | 4.6350E+05 | 8.2508E+02 |
| 1.5032E+01 | 1.7277E-01 | 1.8963E+01 | 3.5689E+05 | 8.2481E+02 |
| 1.5042E+01 | 2.1367E-01 | 2.3453E+01 | 4.4138E+05 | 8.2426E+02 |
| 1.5053E+01 | 1.3800E-01 | 1.5147E+01 | 2.8506E+05 | 8.2366E+02 |
| 1.5068E+01 | 2.4991E-01 | 2.7431E+01 | 5.1624E+05 | 8.2281E+02 |
| 1.5074E+01 | 2.1532E-01 | 2.3634E+01 | 4.4479E+05 | 8.2251E+02 |
| 1.5091E+01 | 1.4074E-01 | 1.5448E+01 | 2.9073E+05 | 8.2158E+02 |
| 1.5114E+01 | 1.5465E-01 | 1.6975E+01 | 3.1946E+05 | 8.2033E+02 |
| 1.5119E+01 | 1.7744E-01 | 1.9476E+01 | 3.6653E+05 | 8.2008E+02 |
| 1.5125E+01 | 2.7224E-01 | 2.9881E+01 | 5.6236E+05 | 8.1973E+02 |
| 1.5131E+01 | 2.5732E-01 | 2.8244E+01 | 5.3155E+05 | 8.1940E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.5149E+01 | 1.6536E-01 | 1.8150E+01 | 3.4158E+05 | 8.1842E+02 |
| 1.5161E+01 | 2.0626E-01 | 2.2639E+01 | 4.2607E+05 | 8.1781E+02 |
| 1.5179E+01 | 3.8416E-01 | 4.2165E+01 | 7.9355E+05 | 8.1683E+02 |
| 1.5197E+01 | 2.2438E-01 | 2.4628E+01 | 4.6350E+05 | 8.1582E+02 |
| 1.5211E+01 | 1.5236E-01 | 1.6723E+01 | 3.1473E+05 | 8.1508E+02 |
| 1.5220E+01 | 1.8906E-01 | 2.0751E+01 | 3.9053E+05 | 8.1462E+02 |
| 1.5230E+01 | 2.0159E-01 | 2.2127E+01 | 4.1643E+05 | 8.1410E+02 |
| 1.5244E+01 | 2.9173E-01 | 3.2021E+01 | 6.0263E+05 | 8.1333E+02 |
| 1.5262E+01 | 2.4158E-01 | 2.6516E+01 | 4.9904E+05 | 8.1235E+02 |
| 1.5275E+01 | 2.7288E-01 | 2.9952E+01 | 5.6369E+05 | 8.1169E+02 |
| 1.5300E+01 | 4.6779E-01 | 5.1346E+01 | 9.6632E+05 | 8.1036E+02 |
| 1.5318E+01 | 1.8439E-01 | 2.0239E+01 | 3.8089E+05 | 8.0940E+02 |
| 1.5331E+01 | 2.4616E-01 | 2.7019E+01 | 5.0849E+05 | 8.0874E+02 |
| 1.5346E+01 | 3.1122E-01 | 3.4160E+01 | 6.4289E+05 | 8.0792E+02 |
| 1.5354E+01 | 2.9960E-01 | 3.2884E+01 | 6.1888E+05 | 8.0751E+02 |
| 1.5369E+01 | 2.5266E-01 | 2.7732E+01 | 5.2191E+05 | 8.0672E+02 |
| 1.5380E+01 | 2.8496E-01 | 3.1277E+01 | 5.8864E+05 | 8.0612E+02 |
| 1.5398E+01 | 3.4883E-01 | 3.8288E+01 | 7.2058E+05 | 8.0519E+02 |
| 1.5408E+01 | 4.2826E-01 | 4.7007E+01 | 8.8466E+05 | 8.0470E+02 |
| 1.5423E+01 | 3.0381E-01 | 3.3346E+01 | 6.2758E+05 | 8.0391E+02 |
| 1.5434E+01 | 2.1688E-01 | 2.3805E+01 | 4.4800E+05 | 8.0333E+02 |
| 1.5444E+01 | 2.3920E-01 | 2.6255E+01 | 4.9412E+05 | 8.0279E+02 |
| 1.5457E+01 | 2.9731E-01 | 3.2633E+01 | 6.1416E+05 | 8.0210E+02 |
| 1.5477E+01 | 2.3133E-01 | 2.5392E+01 | 4.7787E+05 | 8.0109E+02 |
| 1.5485E+01 | 2.4762E-01 | 2.7179E+01 | 5.1151E+05 | 8.0066E+02 |
| 1.5497E+01 | 2.6666E-01 | 2.9269E+01 | 5.5083E+05 | 8.0005E+02 |
| 1.5512E+01 | 3.0235E-01 | 3.3186E+01 | 6.2455E+05 | 7.9930E+02 |
| 1.5521E+01 | 3.3858E-01 | 3.7163E+01 | 6.9941E+05 | 7.9882E+02 |
| 1.5542E+01 | 2.2392E-01 | 2.4578E+01 | 4.6255E+05 | 7.9774E+02 |
| 1.5551E+01 | 2.7892E-01 | 3.0614E+01 | 5.7616E+05 | 7.9726E+02 |
| 1.5559E+01 | 2.4058E-01 | 2.6406E+01 | 4.9696E+05 | 7.9688E+02 |
| 1.5578E+01 | 1.8302E-01 | 2.0088E+01 | 3.7806E+05 | 7.9591E+02 |
| 1.5586E+01 | 2.0068E-01 | 2.2027E+01 | 4.1454E+05 | 7.9548E+02 |
| 1.5592E+01 | 1.9327E-01 | 2.1213E+01 | 3.9923E+05 | 7.9516E+02 |
| 1.5610E+01 | 2.4158E-01 | 2.6516E+01 | 4.9904E+05 | 7.9425E+02 |
| 1.5615E+01 | 2.8102E-01 | 3.0846E+01 | 5.8051E+05 | 7.9403E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.5640E+01 | 2.0086E-01 | 2.2047E+01 | 4.1492E+05 | 7.9274E+02 |
| 1.5653E+01 | 2.3875E-01 | 2.6205E+01 | 4.9318E+05 | 7.9207E+02 |
| 1.5677E+01 | 1.8302E-01 | 2.0088E+01 | 3.7806E+05 | 7.9086E+02 |
| 1.5691E+01 | 2.1688E-01 | 2.3805E+01 | 4.4800E+05 | 7.9016E+02 |
| 1.5705E+01 | 2.3710E-01 | 2.6024E+01 | 4.8978E+05 | 7.8946E+02 |
| 1.5714E+01 | 2.2621E-01 | 2.4829E+01 | 4.6728E+05 | 7.8902E+02 |
| 1.5726E+01 | 2.2896E-01 | 2.5130E+01 | 4.7295E+05 | 7.8842E+02 |
| 1.5737E+01 | 1.9766E-01 | 2.1695E+01 | 4.0830E+05 | 7.8783E+02 |
| 1.5749E+01 | 2.0644E-01 | 2.2660E+01 | 4.2645E+05 | 7.8726E+02 |
| 1.5752E+01 | 2.2392E-01 | 2.4578E+01 | 4.6255E+05 | 7.8712E+02 |
| 1.5762E+01 | 1.7817E-01 | 1.9556E+01 | 3.6804E+05 | 7.8658E+02 |
| 1.5778E+01 | 2.1788E-01 | 2.3915E+01 | 4.5008E+05 | 7.8582E+02 |
| 1.5790E+01 | 2.2292E-01 | 2.4467E+01 | 4.6048E+05 | 7.8522E+02 |
| 1.5796E+01 | 1.9784E-01 | 2.1715E+01 | 4.0868E+05 | 7.8489E+02 |
| 1.5815E+01 | 2.2063E-01 | 2.4216E+01 | 4.5575E+05 | 7.8397E+02 |
| 1.5838E+01 | 1.7423E-01 | 1.9124E+01 | 3.5991E+05 | 7.8285E+02 |
| 1.5872E+01 | 1.2171E-01 | 1.3359E+01 | 2.5141E+05 | 7.8117E+02 |
| 1.5884E+01 | 1.9135E-01 | 2.1002E+01 | 3.9526E+05 | 7.8054E+02 |
| 1.5895E+01 | 2.2621E-01 | 2.4829E+01 | 4.6728E+05 | 7.8000E+02 |
| 1.5907E+01 | 2.3829E-01 | 2.6155E+01 | 4.9223E+05 | 7.7945E+02 |
| 1.5929E+01 | 2.0580E-01 | 2.2589E+01 | 4.2513E+05 | 7.7835E+02 |
| 1.5944E+01 | 2.5083E-01 | 2.7531E+01 | 5.1813E+05 | 7.7764E+02 |
| 1.5963E+01 | 1.7487E-01 | 1.9194E+01 | 3.6124E+05 | 7.7668E+02 |
| 1.6008E+01 | 1.1869E-01 | 1.3027E+01 | 2.4517E+05 | 7.7450E+02 |
| 1.6025E+01 | 1.3049E-01 | 1.4323E+01 | 2.6956E+05 | 7.7368E+02 |
| 1.6049E+01 | 2.2758E-01 | 2.4980E+01 | 4.7012E+05 | 7.7253E+02 |
| 1.6077E+01 | 1.9235E-01 | 2.1113E+01 | 3.9734E+05 | 7.7121E+02 |
| 1.6081E+01 | 2.0626E-01 | 2.2639E+01 | 4.2607E+05 | 7.7099E+02 |
| 1.6096E+01 | 1.9674E-01 | 2.1595E+01 | 4.0641E+05 | 7.7027E+02 |
| 1.6112E+01 | 1.5145E-01 | 1.6623E+01 | 3.1284E+05 | 7.6950E+02 |
| 1.6127E+01 | 1.6600E-01 | 1.8220E+01 | 3.4290E+05 | 7.6878E+02 |
| 1.6137E+01 | 1.7863E-01 | 1.9606E+01 | 3.6899E+05 | 7.6833E+02 |
| 1.6157E+01 | 1.5584E-01 | 1.7105E+01 | 3.2192E+05 | 7.6739E+02 |
| 1.6166E+01 | 1.7423E-01 | 1.9124E+01 | 3.5991E+05 | 7.6694E+02 |
| 1.6179E+01 | 1.5977E-01 | 1.7537E+01 | 3.3005E+05 | 7.6633E+02 |
| 1.6188E+01 | 1.7002E-01 | 1.8662E+01 | 3.5122E+05 | 7.6589E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2$ $\mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.6195E+01 | 1.6261E-01 | 1.7848E+01 | 3.3591E+05 | 7.6558E+02 |
| 1.6201E+01 | 1.8119E-01 | 1.9887E+01 | 3.7428E+05 | 7.6528E+02 |
| 1.6217E+01 | 1.8723E-01 | 2.0550E+01 | 3.8675E+05 | 7.6453E+02 |
| 1.6243E+01 | 1.4605E-01 | 1.6030E+01 | 3.0169E+05 | 7.6333E+02 |
| 1.6264E+01 | 1.8814E-01 | 2.0651E+01 | 3.8864E+05 | 7.6233E+02 |
| 1.6277E+01 | 1.6581E-01 | 1.8200E+01 | 3.4252E+05 | 7.6172E+02 |
| 1.6286E+01 | 1.7487E-01 | 1.9194E+01 | 3.6124E+05 | 7.6128E+02 |
| 1.6296E+01 | 1.6279E-01 | 1.7868E+01 | 3.3628E+05 | 7.6083E+02 |
| 1.6308E+01 | 1.6673E-01 | 1.8300E+01 | 3.4441E+05 | 7.6028E+02 |
| 1.6314E+01 | 1.8183E-01 | 1.9958E+01 | 3.7560E+05 | 7.6000E+02 |
| 1.6328E+01 | 1.5401E-01 | 1.6904E+01 | 3.1814E+05 | 7.5934E+02 |
| 1.6337E+01 | 1.5749E-01 | 1.7286E+01 | 3.2532E+05 | 7.5890E+02 |
| 1.6347E+01 | 1.4541E-01 | 1.5960E+01 | 3.0037E+05 | 7.5843E+02 |
| 1.6363E+01 | 1.6865E-01 | 1.8511E+01 | 3.4838E+05 | 7.5769E+02 |
| 1.6383E+01 | 1.4422E-01 | 1.5830E+01 | 2.9791E+05 | 7.5679E+02 |
| 1.6390E+01 | 1.5557E-01 | 1.7075E+01 | 3.2135E+05 | 7.5648E+02 |
| 1.6413E+01 | 1.6536E-01 | 1.8150E+01 | 3.4158E+05 | 7.5538E+02 |
| 1.6422E+01 | 1.5584E-01 | 1.7105E+01 | 3.2192E+05 | 7.5497E+02 |
| 1.6436E+01 | 1.9976E-01 | 2.1926E+01 | 4.1265E+05 | 7.5434E+02 |
| 1.6449E+01 | 1.9180E-01 | 2.1052E+01 | 3.9621E+05 | 7.5376E+02 |
| 1.6464E+01 | 1.4541E-01 | 1.5960E+01 | 3.0037E+05 | 7.5308E+02 |
| 1.6491E+01 | 1.3122E-01 | 1.4403E+01 | 2.7107E+05 | 7.5181E+02 |
| 1.6503E+01 | 1.5840E-01 | 1.7386E+01 | 3.2721E+05 | 7.5126E+02 |
| 1.6518E+01 | 1.5977E-01 | 1.7537E+01 | 3.3005E+05 | 7.5060E+02 |
| 1.6528E+01 | 1.4074E-01 | 1.5448E+01 | 2.9073E+05 | 7.5016E+02 |
| 1.6551E+01 | 2.3024E-01 | 2.5271E+01 | 4.7560E+05 | 7.4909E+02 |
| 1.6573E+01 | 1.6325E-01 | 1.7919E+01 | 3.3723E+05 | 7.4813E+02 |
| 1.6589E+01 | 1.4138E-01 | 1.5518E+01 | 2.9205E+05 | 7.4738E+02 |
| 1.6618E+01 | 1.9510E-01 | 2.1414E+01 | 4.0301E+05 | 7.4610E+02 |
| 1.6632E+01 | 1.6893E-01 | 1.8541E+01 | 3.4895E+05 | 7.4545E+02 |
| 1.6664E+01 | 1.8961E-01 | 2.0811E+01 | 3.9167E+05 | 7.4401E+02 |
| 1.6693E+01 | 1.6408E-01 | 1.8009E+01 | 3.3893E+05 | 7.4273E+02 |
| 1.6706E+01 | 1.8512E-01 | 2.0319E+01 | 3.8241E+05 | 7.4214E+02 |
| 1.6716E+01 | 1.8860E-01 | 2.0701E+01 | 3.8959E+05 | 7.4171E+02 |
| 1.6722E+01 | 2.0535E-01 | 2.2539E+01 | 4.2418E+05 | 7.4144E+02 |
| 1.6740E+01 | 1.8000E-01 | 1.9757E+01 | 3.7182E+05 | 7.4064E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.6763E+01 | 2.2163E-01 | 2.4327E+01 | 4.5783E+05 | 7.3963E+02 |
| 1.6785E+01 | 2.2694E-01 | 2.4909E+01 | 4.6879E+05 | 7.3866E+02 |
| 1.6799E+01 | 2.6391E-01 | 2.8967E+01 | 5.4516E+05 | 7.3805E+02 |
| 1.6819E+01 | 3.1260E-01 | 3.4311E+01 | 6.4572E+05 | 7.3716E+02 |
| 1.6832E+01 | 2.9713E-01 | 3.2613E+01 | 6.1378E+05 | 7.3658E+02 |
| 1.6845E+01 | 3.0445E-01 | 3.3417E+01 | 6.2890E+05 | 7.3603E+02 |
| 1.6870E+01 | 3.3840E-01 | 3.7143E+01 | 6.9903E+05 | 7.3495E+02 |
| 1.6883E+01 | 3.3593E-01 | 3.6872E+01 | 6.9393E+05 | 7.3437E+02 |
| 1.6895E+01 | 3.2083E-01 | 3.5215E+01 | 6.6274E+05 | 7.3384E+02 |
| 1.6923E+01 | 2.9713E-01 | 3.2613E+01 | 6.1378E+05 | 7.3263E+02 |
| 1.6941E+01 | 5.0330E-01 | 5.5243E+01 | 1.0397E+06 | 7.3184E+02 |
| 1.6951E+01 | 2.7553E-01 | 3.0243E+01 | 5.6917E+05 | 7.3142E+02 |
| 1.6974E+01 | 3.1141E-01 | 3.4180E+01 | 6.4327E+05 | 7.3042E+02 |
| 1.6984E+01 | 2.8981E-01 | 3.1810E+01 | 5.9866E+05 | 7.3000E+02 |
| 1.6999E+01 | 2.6227E-01 | 2.8786E+01 | 5.4176E+05 | 7.2936E+02 |
| 1.7019E+01 | 2.5064E-01 | 2.7511E+01 | 5.1775E+05 | 7.2852E+02 |
| 1.7029E+01 | 2.6776E-01 | 2.9389E+01 | 5.5310E+05 | 7.2807E+02 |
| 1.7045E+01 | 2.7691E-01 | 3.0394E+01 | 5.7200E+05 | 7.2741E+02 |
| 1.7055E+01 | 2.7178E-01 | 2.9831E+01 | 5.6142E+05 | 7.2698E+02 |
| 1.7068E+01 | 2.8304E-01 | 3.1066E+01 | 5.8467E+05 | 7.2643E+02 |
| 1.7088E+01 | 4.7100E-01 | 5.1697E+01 | 9.7293E+05 | 7.2556E+02 |
| 1.7103E+01 | 2.2447E-01 | 2.4638E+01 | 4.6369E+05 | 7.2492E+02 |
| 1.7108E+01 | 2.2941E-01 | 2.5181E+01 | 4.7390E+05 | 7.2471E+02 |
| 1.7123E+01 | 2.3307E-01 | 2.5582E+01 | 4.8146E+05 | 7.2407E+02 |
| 1.7134E+01 | 2.4451E-01 | 2.6838E+01 | 5.0509E+05 | 7.2360E+02 |
| 1.7151E+01 | 2.2530E-01 | 2.4729E+01 | 4.6539E+05 | 7.2291E+02 |
| 1.7163E+01 | 2.3957E-01 | 2.6296E+01 | 4.9488E+05 | 7.2241E+02 |
| 1.7172E+01 | 2.3472E-01 | 2.5763E+01 | 4.8486E+05 | 7.2201E+02 |
| 1.7202E+01 | 2.3307E-01 | 2.5582E+01 | 4.8146E+05 | 7.2077E+02 |
| 1.7215E+01 | 2.4003E-01 | 2.6346E+01 | 4.9582E+05 | 7.2021E+02 |
| 1.7234E+01 | 3.1717E-01 | 3.4813E+01 | 6.5518E+05 | 7.1942E+02 |
| 1.7248E+01 | 2.2978E-01 | 2.5221E+01 | 4.7465E+05 | 7.1884E+02 |
| 1.7259E+01 | 2.2612E-01 | 2.4819E+01 | 4.6709E+05 | 7.1837E+02 |
| 1.7269E+01 | 2.4003E-01 | 2.6346E+01 | 4.9582E+05 | 7.1797E+02 |
| 1.7283E+01 | 2.5796E-01 | 2.8314E+01 | 5.3287E+05 | 7.1737E+02 |
| 1.7292E+01 | 2.4552E-01 | 2.6948E+01 | 5.0717E+05 | 7.1700E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2$ $\mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.7305E+01 | 2.4753E-01 | 2.7169E+01 | 5.1132E+05 | 7.1647E+02 |
| 1.7319E+01 | 2.6858E-01 | 2.9480E+01 | 5.5480E+05 | 7.1589E+02 |
| 1.7330E+01 | 2.6043E-01 | 2.8586E+01 | 5.3798E+05 | 7.1542E+02 |
| 1.7342E+01 | 2.5385E-01 | 2.7862E+01 | 5.2437E+05 | 7.1495E+02 |
| 1.7351E+01 | 2.6574E-01 | 2.9168E+01 | 5.4894E+05 | 7.1458E+02 |
| 1.7358E+01 | 2.8697E-01 | 3.1498E+01 | 5.9280E+05 | 7.1429E+02 |
| 1.7376E+01 | 3.1818E-01 | 3.4923E+01 | 6.5726E+05 | 7.1353E+02 |
| 1.7392E+01 | 2.9466E-01 | 3.2342E+01 | 6.0867E+05 | 7.1289E+02 |
| 1.7419E+01 | 3.2852E-01 | 3.6058E+01 | 6.7862E+05 | 7.1179E+02 |
| 1.7453E+01 | 2.8404E-01 | 3.1177E+01 | 5.8675E+05 | 7.1037E+02 |
| 1.7469E+01 | 3.8040E-01 | 4.1753E+01 | 7.8580E+05 | 7.0973E+02 |
| 1.7474E+01 | 2.4735E-01 | 2.7149E+01 | 5.1095E+05 | 7.0955E+02 |
| 1.7486E+01 | 2.2566E-01 | 2.4769E+01 | 4.6615E+05 | 7.0904E+02 |
| 1.7537E+01 | 2.3591E-01 | 2.5894E+01 | 4.8732E+05 | 7.0697E+02 |
| 1.7565E+01 | 2.1550E-01 | 2.3654E+01 | 4.4516E+05 | 7.0585E+02 |
| 1.7580E+01 | 2.4936E-01 | 2.7370E+01 | 5.1511E+05 | 7.0526E+02 |
| 1.7614E+01 | 5.6571E-01 | 6.2093E+01 | 1.1686E+06 | 7.0388E+02 |
| 1.7628E+01 | 2.7608E-01 | 3.0303E+01 | 5.7030E+05 | 7.0335E+02 |
| 1.7646E+01 | 2.2941E-01 | 2.5181E+01 | 4.7390E+05 | 7.0261E+02 |
| 1.7660E+01 | 2.6263E-01 | 2.8827E+01 | 5.4251E+05 | 7.0207E+02 |
| 1.7681E+01 | 1.7286E-01 | 1.8973E+01 | 3.5708E+05 | 7.0122E+02 |
| 1.7701E+01 | 2.0590E-01 | 2.2599E+01 | 4.2532E+05 | 7.0042E+02 |
| 1.7715E+01 | 3.2650E-01 | 3.5837E+01 | 6.7446E+05 | 6.9987E+02 |
| 1.7736E+01 | 2.0535E-01 | 2.2539E+01 | 4.2418E+05 | 6.9905E+02 |
| 1.7748E+01 | 2.3792E-01 | 2.6115E+01 | 4.9148E+05 | 6.9858E+02 |
| 1.7760E+01 | 2.4854E-01 | 2.7280E+01 | 5.1340E+05 | 6.9810E+02 |
| 1.7779E+01 | 3.2486E-01 | 3.5657E+01 | 6.7105E+05 | 6.9737E+02 |
| 1.7790E+01 | 2.7261E-01 | 2.9921E+01 | 5.6312E+05 | 6.9695E+02 |
| 1.7802E+01 | 2.6959E-01 | 2.9590E+01 | 5.5688E+05 | 6.9645E+02 |
| 1.7818E+01 | 1.7304E-01 | 1.8993E+01 | 3.5745E+05 | 6.9584E+02 |
| 1.7837E+01 | 1.8860E-01 | 2.0701E+01 | 3.8959E+05 | 6.9510E+02 |
| 1.7852E+01 | 2.8121E-01 | 3.0866E+01 | 5.8089E+05 | 6.9453E+02 |
| 1.7877E+01 | 1.6426E-01 | 1.8029E+01 | 3.3931E+05 | 6.9353E+02 |
| 1.7888E+01 | 1.7323E-01 | 1.9014E+01 | 3.5783E+05 | 6.9310E+02 |
| 1.7900E+01 | 1.7634E-01 | 1.9355E+01 | 3.6426E+05 | 6.9263E+02 |
| 1.7927E+01 | 3.1690E-01 | 3.4783E+01 | 6.5461E+05 | 6.9160E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.7946E+01 | 1.5794E-01 | 1.7336E+01 | 3.2626E+05 | 6.9089E+02 |
| 1.7964E+01 | 2.0288E-01 | 2.2268E+01 | 4.1908E+05 | 6.9018E+02 |
| 1.7969E+01 | 2.1084E-01 | 2.3142E+01 | 4.3552E+05 | 6.9000E+02 |
| 1.7981E+01 | 2.1349E-01 | 2.3433E+01 | 4.4101E+05 | 6.8954E+02 |
| 1.7989E+01 | 2.3426E-01 | 2.5713E+01 | 4.8392E+05 | 6.8922E+02 |
| 1.8007E+01 | 1.4568E-01 | 1.5990E+01 | 3.0093E+05 | 6.8852E+02 |
| 1.8019E+01 | 1.5511E-01 | 1.7025E+01 | 3.2040E+05 | 6.8807E+02 |
| 1.8028E+01 | 1.9693E-01 | 2.1615E+01 | 4.0679E+05 | 6.8772E+02 |
| 1.8041E+01 | 1.5099E-01 | 1.6573E+01 | 3.1190E+05 | 6.8724E+02 |
| 1.8058E+01 | 2.4735E-01 | 2.7149E+01 | 5.1095E+05 | 6.8660E+02 |
| 1.8069E+01 | 2.1248E-01 | 2.3322E+01 | 4.3893E+05 | 6.8617E+02 |
| 1.8081E+01 | 2.0901E-01 | 2.2941E+01 | 4.3174E+05 | 6.8571E+02 |
| 1.8089E+01 | 1.5181E-01 | 1.6663E+01 | 3.1360E+05 | 6.8542E+02 |
| 1.8096E+01 | 1.7954E-01 | 1.9707E+01 | 3.7088E+05 | 6.8515E+02 |
| 1.8100E+01 | 1.6893E-01 | 1.8541E+01 | 3.4895E+05 | 6.8499E+02 |
| 1.8119E+01 | 2.4936E-01 | 2.7370E+01 | 5.1511E+05 | 6.8429E+02 |
| 1.8147E+01 | 1.5227E-01 | 1.6713E+01 | 3.1454E+05 | 6.8322E+02 |
| 1.8165E+01 | 1.6490E-01 | 1.8100E+01 | 3.4063E+05 | 6.8255E+02 |
| 1.8172E+01 | 2.0471E-01 | 2.2469E+01 | 4.2286E+05 | 6.8228E+02 |
| 1.8190E+01 | 1.7286E-01 | 1.8973E+01 | 3.5708E+05 | 6.8161E+02 |
| 1.8203E+01 | 2.0571E-01 | 2.2579E+01 | 4.2494E+05 | 6.8113E+02 |
| 1.8214E+01 | 1.8165E-01 | 1.9938E+01 | 3.7522E+05 | 6.8070E+02 |
| 1.8221E+01 | 1.8897E-01 | 2.0741E+01 | 3.9035E+05 | 6.8043E+02 |
| 1.8230E+01 | 1.6893E-01 | 1.8541E+01 | 3.4895E+05 | 6.8011E+02 |
| 1.8243E+01 | 1.9061E-01 | 2.0922E+01 | 3.9375E+05 | 6.7961E+02 |
| 1.8252E+01 | 2.1468E-01 | 2.3564E+01 | 4.4346E+05 | 6.7930E+02 |
| 1.8280E+01 | 1.6655E-01 | 1.8280E+01 | 3.4403E+05 | 6.7826E+02 |
| 1.8311E+01 | 1.8796E-01 | 2.0631E+01 | 3.8827E+05 | 6.7709E+02 |
| 1.8321E+01 | 1.7917E-01 | 1.9666E+01 | 3.7012E+05 | 6.7675E+02 |
| 1.8339E+01 | 2.0004E-01 | 2.1956E+01 | 4.1322E+05 | 6.7608E+02 |
| 1.8350E+01 | 1.8329E-01 | 2.0118E+01 | 3.7863E+05 | 6.7566E+02 |
| 1.8387E+01 | 1.9757E-01 | 2.1685E+01 | 4.0811E+05 | 6.7431E+02 |
| 1.8414E+01 | 1.8036E-01 | 1.9797E+01 | 3.7258E+05 | 6.7332E+02 |
| 1.8447E+01 | 1.9263E-01 | 2.1143E+01 | 3.9791E+05 | 6.7210E+02 |
| 1.8517E+01 | 2.0141E-01 | 2.2107E+01 | 4.1605E+05 | 6.6957E+02 |
| 1.8542E+01 | 1.9226E-01 | 2.1103E+01 | 3.9715E+05 | 6.6867E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.8569E+01 | 2.0123E-01 | 2.2087E+01 | 4.1568E+05 | 6.6771E+02 |
| 1.8641E+01 | 2.0937E-01 | 2.2981E+01 | 4.3250E+05 | 6.6511E+02 |
| 1.8668E+01 | 2.0535E-01 | 2.2539E+01 | 4.2418E+05 | 6.6415E+02 |
| 1.8693E+01 | 2.1633E-01 | 2.3744E+01 | 4.4687E+05 | 6.6327E+02 |
| 1.8785E+01 | 2.2447E-01 | 2.4638E+01 | 4.6369E+05 | 6.6000E+02 |
| 1.8840E+01 | 2.3179E-01 | 2.5442E+01 | 4.7881E+05 | 6.5808E+02 |
| 1.8908E+01 | 2.4689E-01 | 2.7099E+01 | 5.1000E+05 | 6.5574E+02 |
| 1.8955E+01 | 2.4936E-01 | 2.7370E+01 | 5.1511E+05 | 6.5410E+02 |
| 1.8969E+01 | 2.5751E-01 | 2.8264E+01 | 5.3193E+05 | 6.5362E+02 |
| 1.8998E+01 | 2.6208E-01 | 2.8766E+01 | 5.4138E+05 | 6.5261E+02 |
| 1.9029E+01 | 2.5796E-01 | 2.8314E+01 | 5.3287E+05 | 6.5154E+02 |
| 1.9051E+01 | 2.8285E-01 | 3.1046E+01 | 5.8429E+05 | 6.5080E+02 |
| 1.9062E+01 | 2.4616E-01 | 2.7019E+01 | 5.0849E+05 | 6.5042E+02 |
| 1.9074E+01 | 2.3371E-01 | 2.5653E+01 | 4.8278E+05 | 6.5000E+02 |
| 1.9116E+01 | 2.2987E-01 | 2.5231E+01 | 4.7484E+05 | 6.4860E+02 |
| 1.9138E+01 | 2.3234E-01 | 2.5502E+01 | 4.7995E+05 | 6.4785E+02 |
| 1.9165E+01 | 2.5568E-01 | 2.8063E+01 | 5.2815E+05 | 6.4692E+02 |
| 1.9175E+01 | 2.7846E-01 | 3.0564E+01 | 5.7522E+05 | 6.4658E+02 |
| 1.9192E+01 | 2.3133E-01 | 2.5392E+01 | 4.7787E+05 | 6.4602E+02 |
| 1.9206E+01 | 2.3298E-01 | 2.5572E+01 | 4.8127E+05 | 6.4556E+02 |
| 1.9223E+01 | 2.2639E-01 | 2.4849E+01 | 4.6766E+05 | 6.4498E+02 |
| 1.9241E+01 | 2.1706E-01 | 2.3825E+01 | 4.4838E+05 | 6.4439E+02 |
| 1.9261E+01 | 2.1578E-01 | 2.3684E+01 | 4.4573E+05 | 6.4370E+02 |
| 1.9289E+01 | 2.2923E-01 | 2.5161E+01 | 4.7352E+05 | 6.4276E+02 |
| 1.9309E+01 | 2.6263E-01 | 2.8827E+01 | 5.4251E+05 | 6.4210E+02 |
| 1.9323E+01 | 2.2950E-01 | 2.5191E+01 | 4.7409E+05 | 6.4165E+02 |
| 1.9334E+01 | 2.3234E-01 | 2.5502E+01 | 4.7995E+05 | 6.4127E+02 |
| 1.9373E+01 | 2.2548E-01 | 2.4749E+01 | 4.6577E+05 | 6.4000E+02 |
| 1.9396E+01 | 2.2575E-01 | 2.4779E+01 | 4.6634E+05 | 6.3923E+02 |
| 1.9423E+01 | 2.3637E-01 | 2.5944E+01 | 4.8826E+05 | 6.3834E+02 |
| 1.9437E+01 | 2.5138E-01 | 2.7591E+01 | 5.1926E+05 | 6.3789E+02 |
| 1.9449E+01 | 2.3829E-01 | 2.6155E+01 | 4.9223E+05 | 6.3748E+02 |
| 1.9472E+01 | 2.4433E-01 | 2.6818E+01 | 5.0471E+05 | 6.3673E+02 |
| 1.9507E+01 | 2.4653E-01 | 2.7059E+01 | 5.0925E+05 | 6.3559E+02 |
| 1.9546E+01 | 2.5073E-01 | 2.7521E+01 | 5.1794E+05 | 6.3432E+02 |
| 1.9561E+01 | 2.6602E-01 | 2.9198E+01 | 5.4951E+05 | 6.3384E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.9569E+01 | 2.3198E-01 | 2.5462E+01 | 4.7919E+05 | 6.3359E+02 |
| 1.9590E+01 | 2.1605E-01 | 2.3714E+01 | 4.4630E+05 | 6.3291E+02 |
| 1.9628E+01 | 2.3701E-01 | 2.6014E+01 | 4.8959E+05 | 6.3168E+02 |
| 1.9640E+01 | 2.3701E-01 | 2.6014E+01 | 4.8959E+05 | 6.3127E+02 |
| 1.9664E+01 | 2.5943E-01 | 2.8475E+01 | 5.3590E+05 | 6.3050E+02 |
| 1.9684E+01 | 2.7416E-01 | 3.0092E+01 | 5.6633E+05 | 6.2986E+02 |
| 1.9694E+01 | 2.8597E-01 | 3.1388E+01 | 5.9072E+05 | 6.2955E+02 |
| 1.9705E+01 | 2.5568E-01 | 2.8063E+01 | 5.2815E+05 | 6.2919E+02 |
| 1.9740E+01 | 2.1312E-01 | 2.3393E+01 | 4.4025E+05 | 6.2810E+02 |
| 1.9772E+01 | 2.4232E-01 | 2.6597E+01 | 5.0055E+05 | 6.2706E+02 |
| 1.9795E+01 | 2.6730E-01 | 2.9339E+01 | 5.5215E+05 | 6.2633E+02 |
| 1.9807E+01 | 2.7755E-01 | 3.0464E+01 | 5.7333E+05 | 6.2597E+02 |
| 1.9822E+01 | 2.5385E-01 | 2.7862E+01 | 5.2437E+05 | 6.2548E+02 |
| 1.9838E+01 | 2.3170E-01 | 2.5432E+01 | 4.7862E+05 | 6.2498E+02 |
| 1.9850E+01 | 2.3609E-01 | 2.5914E+01 | 4.8770E+05 | 6.2462E+02 |
| 1.9878E+01 | 2.2731E-01 | 2.4950E+01 | 4.6955E+05 | 6.2371E+02 |
| 1.9910E+01 | 2.6318E-01 | 2.8887E+01 | 5.4365E+05 | 6.2271E+02 |
| 1.9949E+01 | 2.8798E-01 | 3.1609E+01 | 5.9488E+05 | 6.2152E+02 |
| 1.9977E+01 | 2.0937E-01 | 2.2981E+01 | 4.3250E+05 | 6.2063E+02 |
| 2.0002E+01 | 2.3435E-01 | 2.5723E+01 | 4.8410E+05 | 6.1986E+02 |
| 2.0021E+01 | 2.4671E-01 | 2.7079E+01 | 5.0962E+05 | 6.1928E+02 |
| 2.0038E+01 | 2.6510E-01 | 2.9098E+01 | 5.4762E+05 | 6.1873E+02 |
| 2.0053E+01 | 2.4570E-01 | 2.6968E+01 | 5.0754E+05 | 6.1828E+02 |
| 2.0068E+01 | 2.7883E-01 | 3.0604E+01 | 5.7597E+05 | 6.1783E+02 |
| 2.0081E+01 | 2.9539E-01 | 3.2422E+01 | 6.1019E+05 | 6.1742E+02 |
| 2.0111E+01 | 1.9610E-01 | 2.1525E+01 | 4.0509E+05 | 6.1649E+02 |
| 2.0138E+01 | 2.4232E-01 | 2.6597E+01 | 5.0055E+05 | 6.1566E+02 |
| 2.0151E+01 | 2.3920E-01 | 2.6255E+01 | 4.9412E+05 | 6.1527E+02 |
| 2.0170E+01 | 2.6940E-01 | 2.9570E+01 | 5.5650E+05 | 6.1470E+02 |
| 2.0183E+01 | 2.6355E-01 | 2.8927E+01 | 5.4440E+05 | 6.1430E+02 |
| 2.0196E+01 | 2.4415E-01 | 2.6798E+01 | 5.0433E+05 | 6.1389E+02 |
| 2.0216E+01 | 2.7224E-01 | 2.9881E+01 | 5.6236E+05 | 6.1330E+02 |
| 2.0235E+01 | 2.4744E-01 | 2.7159E+01 | 5.1114E+05 | 6.1271E+02 |
| 2.0250E+01 | 2.1532E-01 | 2.3634E+01 | 4.4479E+05 | 6.1226E+02 |
| 2.0276E+01 | 2.5449E-01 | 2.7933E+01 | 5.2569E+05 | 6.1147E+02 |
| 2.0289E+01 | 2.4369E-01 | 2.6748E+01 | 5.0339E+05 | 6.1108E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 2.0306E+01 | 2.7041E-01 | 2.9680E+01 | 5.5858E+05 | 6.1059E+02 |
| 2.0325E+01 | 2.4296E-01 | 2.6667E+01 | 5.0187E+05 | 6.1000E+02 |
| 2.0341E+01 | 2.6318E-01 | 2.8887E+01 | 5.4365E+05 | 6.0954E+02 |
| 2.0356E+01 | 2.5824E-01 | 2.8345E+01 | 5.3344E+05 | 6.0909E+02 |
| 2.0366E+01 | 2.5009E-01 | 2.7451E+01 | 5.1662E+05 | 6.0877E+02 |
| 2.0379E+01 | 2.3298E-01 | 2.5572E+01 | 4.8127E+05 | 6.0838E+02 |
| 2.0408E+01 | 2.6043E-01 | 2.8586E+01 | 5.3798E+05 | 6.0753E+02 |
| 2.0420E+01 | 2.4570E-01 | 2.6968E+01 | 5.0754E+05 | 6.0717E+02 |
| 2.0435E+01 | 2.6629E-01 | 2.9228E+01 | 5.5008E+05 | 6.0671E+02 |
| 2.0449E+01 | 2.4515E-01 | 2.6908E+01 | 5.0641E+05 | 6.0630E+02 |
| 2.0472E+01 | 2.5934E-01 | 2.8465E+01 | 5.3571E+05 | 6.0562E+02 |
| 2.0511E+01 | 2.4790E-01 | 2.7210E+01 | 5.1208E+05 | 6.0447E+02 |
| 2.0534E+01 | 2.5888E-01 | 2.8415E+01 | 5.3476E+05 | 6.0379E+02 |
| 2.0547E+01 | 2.5257E-01 | 2.7722E+01 | 5.2172E+05 | 6.0342E+02 |
| 2.0564E+01 | 2.6227E-01 | 2.8786E+01 | 5.4176E+05 | 6.0292E+02 |
| 2.0576E+01 | 2.5293E-01 | 2.7762E+01 | 5.2248E+05 | 6.0256E+02 |
| 2.0587E+01 | 2.5888E-01 | 2.8415E+01 | 5.3476E+05 | 6.0224E+02 |
| 2.0617E+01 | 2.5870E-01 | 2.8395E+01 | 5.3439E+05 | 6.0137E+02 |
| 2.0639E+01 | 2.5732E-01 | 2.8244E+01 | 5.3155E+05 | 6.0073E+02 |
| 2.0664E+01 | 2.6043E-01 | 2.8586E+01 | 5.3798E+05 | 6.0000E+02 |
| 2.0706E+01 | 2.6400E-01 | 2.8977E+01 | 5.4535E+05 | 5.9877E+02 |
| 2.0743E+01 | 2.6474E-01 | 2.9058E+01 | 5.4686E+05 | 5.9773E+02 |
| 2.0790E+01 | 2.5897E-01 | 2.8425E+01 | 5.3495E+05 | 5.9636E+02 |
| 2.0857E+01 | 2.0956E-01 | 2.3001E+01 | 4.3288E+05 | 5.9445E+02 |
| 2.0894E+01 | 2.0553E-01 | 2.2559E+01 | 4.2456E+05 | 5.9341E+02 |
| 2.0929E+01 | 2.1267E-01 | 2.3343E+01 | 4.3930E+05 | 5.9241E+02 |
| 2.0971E+01 | 2.1184E-01 | 2.3252E+01 | 4.3760E+05 | 5.9123E+02 |
| 2.1014E+01 | 1.9748E-01 | 2.1675E+01 | 4.0793E+05 | 5.9000E+02 |
| 2.1040E+01 | 1.8704E-01 | 2.0530E+01 | 3.8638E+05 | 5.8927E+02 |
| 2.1068E+01 | 1.8650E-01 | 2.0470E+01 | 3.8524E+05 | 5.8850E+02 |
| 2.1118E+01 | 1.9857E-01 | 2.1796E+01 | 4.1019E+05 | 5.8709E+02 |
| 2.1194E+01 | 2.1230E-01 | 2.3302E+01 | 4.3855E+05 | 5.8500E+02 |
| 2.1287E+01 | 2.2109E-01 | 2.4267E+01 | 4.5670E+05 | 5.8245E+02 |
| 2.1377E+01 | 2.2877E-01 | 2.5110E+01 | 4.7257E+05 | 5.8000E+02 |
| 2.1526E+01 | 2.3573E-01 | 2.5874E+01 | 4.8694E+05 | 5.7597E+02 |
| 2.1752E+01 | 2.4195E-01 | 2.6557E+01 | 4.9979E+05 | 5.7000E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 2.1958E+01 | 2.4588E-01 | 2.6989E+01 | 5.0792E+05 | 5.6464E+02 |
| 2.2140E+01 | 2.4671E-01 | 2.7079E+01 | 5.0962E+05 | 5.6000E+02 |
| 2.2194E+01 | 2.4671E-01 | 2.7079E+01 | 5.0962E+05 | 5.5863E+02 |
| 2.2241E+01 | 2.5046E-01 | 2.7491E+01 | 5.1737E+05 | 5.5747E+02 |
| 2.2386E+01 | 2.4680E-01 | 2.7089E+01 | 5.0981E+05 | 5.5385E+02 |
| 2.2543E+01 | 2.4570E-01 | 2.6968E+01 | 5.0754E+05 | 5.5000E+02 |
| 2.2707E+01 | 2.4259E-01 | 2.6627E+01 | 5.0112E+05 | 5.4602E+02 |
| 2.2749E+01 | 2.4259E-01 | 2.6627E+01 | 5.0112E+05 | 5.4500E+02 |
| 2.2813E+01 | 2.3417E-01 | 2.5703E+01 | 4.8373E+05 | 5.4349E+02 |
| 2.2845E+01 | 2.1788E-01 | 2.3915E+01 | 4.5008E+05 | 5.4272E+02 |
| 2.2885E+01 | 2.5641E-01 | 2.8144E+01 | 5.2966E+05 | 5.4177E+02 |
| 2.2937E+01 | 2.5128E-01 | 2.7581E+01 | 5.1907E+05 | 5.4054E+02 |
| 2.2998E+01 | 2.5019E-01 | 2.7461E+01 | 5.1681E+05 | 5.3912E+02 |
| 2.3025E+01 | 2.5412E-01 | 2.7893E+01 | 5.2493E+05 | 5.3847E+02 |
| 2.3054E+01 | 2.7663E-01 | 3.0363E+01 | 5.7144E+05 | 5.3781E+02 |
| 2.3086E+01 | 2.1010E-01 | 2.3061E+01 | 4.3401E+05 | 5.3705E+02 |
| 2.3112E+01 | 2.2630E-01 | 2.4839E+01 | 4.6747E+05 | 5.3645E+02 |
| 2.3146E+01 | 2.3362E-01 | 2.5643E+01 | 4.8259E+05 | 5.3566E+02 |
| 2.3221E+01 | 2.4021E-01 | 2.6366E+01 | 4.9620E+05 | 5.3393E+02 |
| 2.3273E+01 | 2.2017E-01 | 2.4166E+01 | 4.5480E+05 | 5.3273E+02 |
| 2.3311E+01 | 2.2676E-01 | 2.4889E+01 | 4.6841E+05 | 5.3188E+02 |
| 2.3347E+01 | 2.3161E-01 | 2.5422E+01 | 4.7843E+05 | 5.3104E+02 |
| 2.3393E+01 | 2.3335E-01 | 2.5613E+01 | 4.8203E+05 | 5.3000E+02 |
| 2.3536E+01 | 2.3408E-01 | 2.5693E+01 | 4.8354E+05 | 5.2678E+02 |
| 2.3581E+01 | 2.3106E-01 | 2.5361E+01 | 4.7730E+05 | 5.2579E+02 |
| 2.3612E+01 | 2.2209E-01 | 2.4377E+01 | 4.5877E+05 | 5.2508E+02 |
| 2.3639E+01 | 2.5064E-01 | 2.7511E+01 | 5.1775E+05 | 5.2448E+02 |
| 2.3684E+01 | 2.4836E-01 | 2.7260E+01 | 5.1303E+05 | 5.2350E+02 |
| 2.3712E+01 | 2.5778E-01 | 2.8294E+01 | 5.3250E+05 | 5.2287E+02 |
| 2.3744E+01 | 2.1001E-01 | 2.3051E+01 | 4.3382E+05 | 5.2218E+02 |
| 2.3761E+01 | 2.1871E-01 | 2.4005E+01 | 4.5178E+05 | 5.2180E+02 |
| 2.3782E+01 | 2.2292E-01 | 2.4467E+01 | 4.6048E+05 | 5.2134E+02 |
| 2.3809E+01 | 2.2209E-01 | 2.4377E+01 | 4.5877E+05 | 5.2074E+02 |
| 2.3831E+01 | 2.4287E-01 | 2.6657E+01 | 5.0168E+05 | 5.2027E+02 |
| 2.3865E+01 | 2.3866E-01 | 2.6195E+01 | 4.9299E+05 | 5.1953E+02 |
| 2.3894E+01 | 2.3673E-01 | 2.5984E+01 | 4.8902E+05 | 5.1890E+02 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2$ $\mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 2.3924E+01 | 2.2493E-01 | 2.4688E+01 | 4.6463E+05 | 5.1824E+02 |
| 2.3958E+01 | 2.2575E-01 | 2.4779E+01 | 4.6634E+05 | 5.1750E+02 |
| 2.3975E+01 | 2.4488E-01 | 2.6878E+01 | 5.0584E+05 | 5.1714E+02 |
| 2.4003E+01 | 2.4964E-01 | 2.7400E+01 | 5.1567E+05 | 5.1654E+02 |
| 2.4036E+01 | 2.1926E-01 | 2.4066E+01 | 4.5291E+05 | 5.1582E+02 |
| 2.4057E+01 | 2.2575E-01 | 2.4779E+01 | 4.6634E+05 | 5.1538E+02 |
| 2.4088E+01 | 2.3024E-01 | 2.5271E+01 | 4.7560E+05 | 5.1472E+02 |
| 2.4126E+01 | 2.2914E-01 | 2.5150E+01 | 4.7333E+05 | 5.1390E+02 |
| 2.4145E+01 | 2.2465E-01 | 2.4658E+01 | 4.6407E+05 | 5.1349E+02 |
| 2.4173E+01 | 2.5302E-01 | 2.7772E+01 | 5.2267E+05 | 5.1291E+02 |
| 2.4200E+01 | 2.2950E-01 | 2.5191E+01 | 4.7409E+05 | 5.1234E+02 |
| 2.4225E+01 | 2.2520E-01 | 2.4719E+01 | 4.6520E+05 | 5.1181E+02 |
| 2.4253E+01 | 2.2767E-01 | 2.4990E+01 | 4.7031E+05 | 5.1121E+02 |
| 2.4277E+01 | 2.3829E-01 | 2.6155E+01 | 4.9223E+05 | 5.1071E+02 |
| 2.4303E+01 | 2.2621E-01 | 2.4829E+01 | 4.6728E+05 | 5.1016E+02 |
| 2.4317E+01 | 2.2648E-01 | 2.4859E+01 | 4.6785E+05 | 5.0986E+02 |
| 2.4338E+01 | 2.3445E-01 | 2.5733E+01 | 4.8429E+05 | 5.0942E+02 |
| 2.4396E+01 | 2.2703E-01 | 2.4919E+01 | 4.6898E+05 | 5.0822E+02 |
| 2.4456E+01 | 2.3161E-01 | 2.5422E+01 | 4.7843E+05 | 5.0696E+02 |
| 2.4491E+01 | 2.2658E-01 | 2.4869E+01 | 4.6804E+05 | 5.0625E+02 |
| 2.4530E+01 | 2.2832E-01 | 2.5060E+01 | 4.7163E+05 | 5.0544E+02 |
| 2.5000E+01 | 2.1499E-01 | 2.3598E+01 | 4.4410E+05 | 4.9594E+02 |
| 2.7500E+01 | 1.9289E-01 | 2.1172E+01 | 3.9846E+05 | 4.5085E+02 |
| 3.0000E+01 | 1.8327E-01 | 2.0116E+01 | 3.7858E+05 | 4.1328E+02 |
| 3.5000E+01 | 1.6830E-01 | 1.8473E+01 | 3.4765E+05 | 3.5424E+02 |
| 4.0000E+01 | 1.5076E-01 | 1.6548E+01 | 3.1143E+05 | 3.0996E+02 |
| 4.5000E+01 | 1.3240E-01 | 1.4532E+01 | 2.7349E+05 | 2.7552E+02 |
| 5.0000E+01 | 1.1520E-01 | 1.2644E+01 | 2.3796E+05 | 2.4797E+02 |
| 6.0000E+01 | 8.6911E-02 | 9.5395E+00 | 1.7953E+05 | 2.0664E+02 |
| 7.0000E+01 | 6.6422E-02 | 7.2906E+00 | 1.3721E+05 | 1.7712E+02 |
| 8.0000E+01 | 5.1760E-02 | 5.6812E+00 | 1.0692E+05 | 1.5498E+02 |
| 9.0000E+01 | 4.1143E-02 | 4.5159E+00 | 8.4988E+04 | 1.3776E+02 |
| 1.0000E+02 | 3.3309E-02 | 3.6561E+00 | 6.8807E+04 | 1.2398E+02 |
| 1.2500E+02 | 1.8936E-02 | 2.0785E+00 | 3.9117E+04 | 9.9187E+01 |
| 1.5000E+02 | 1.2627E-02 | 1.3860E+00 | 2.6084E+04 | 8.2656E+01 |
| 1.7500E+02 | 8.7755E-03 | 9.6321E-01 | 1.8127E+04 | 7.0848E+01 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2$ $\mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 2.0000E+02 | 6.2207E-03 | 6.8279E-01 | 1.2850E+04 | 6.1992E+01 |
| 2.2500E+02 | 4.9790E-03 | 5.4650E-01 | 1.0285E+04 | 5.5104E+01 |
| 2.5000E+02 | 3.7812E-03 | 4.1503E-01 | 7.8109E+03 | 4.9594E+01 |
| 2.7500E+02 | 2.9737E-03 | 3.2640E-01 | 6.1428E+03 | 4.5085E+01 |
| 3.0000E+02 | 2.3958E-03 | 2.6297E-01 | 4.9490E+03 | 4.1328E+01 |
| 3.5000E+02 | 1.6343E-03 | 1.7939E-01 | 3.3761E+03 | 3.5424E+01 |
| 4.0000E+02 | 1.1680E-03 | 1.2820E-01 | 2.4127E+03 | 3.0996E+01 |
| 4.5000E+02 | 8.6342E-04 | 9.4769E-02 | 1.7835E+03 | 2.7552E+01 |
| 5.0000E+02 | 6.5542E-04 | 7.1939E-02 | 1.3539E+03 | 2.4797E+01 |
| 5.0600E+02 | 8.1298E-04 | 8.9233E-02 | 1.6794E+03 | 2.4503E+01 |
| 5.1000E+02 | 8.0817E-04 | 8.8705E-02 | 1.6694E+03 | 2.4311E+01 |
| 5.1300E+02 | 8.0336E-04 | 8.8177E-02 | 1.6595E+03 | 2.4168E+01 |
| 5.1600E+02 | 7.9374E-04 | 8.7121E-02 | 1.6396E+03 | 2.4028E+01 |
| 5.1900E+02 | 7.8411E-04 | 8.6065E-02 | 1.6197E+03 | 2.3889E+01 |
| 5.2200E+02 | 7.7930E-04 | 8.5537E-02 | 1.6098E+03 | 2.3752E+01 |
| 5.2500E+02 | 7.7209E-04 | 8.4745E-02 | 1.5949E+03 | 2.3616E+01 |
| 5.3000E+02 | 1.1690E-03 | 1.2831E-01 | 2.4147E+03 | 2.3393E+01 |
| 5.3250E+02 | 1.7318E-03 | 1.9008E-01 | 3.5773E+03 | 2.3283E+01 |
| 5.3500E+02 | 2.9152E-03 | 3.1997E-01 | 6.0218E+03 | 2.3175E+01 |
| 5.3630E+02 | 4.9212E-03 | 5.4015E-01 | 1.0166E+04 | 2.3118E+01 |
| 5.3770E+02 | 9.6307E-03 | 1.0571E+00 | 1.9894E+04 | 2.3058E+01 |
| 5.3850E+02 | 1.4460E-02 | 1.5872E+00 | 2.9871E+04 | 2.3024E+01 |
| 5.3990E+02 | 1.9242E-02 | 2.1120E+00 | 3.9748E+04 | 2.2964E+01 |
| 5.4100E+02 | 1.8232E-02 | 2.0011E+00 | 3.7661E+04 | 2.2918E+01 |
| 5.4130E+02 | 1.8953E-02 | 2.0803E+00 | 3.9152E+04 | 2.2905E+01 |
| 5.4200E+02 | 2.1166E-02 | 2.3232E+00 | 4.3723E+04 | 2.2875E+01 |
| 5.4360E+02 | 1.9276E-02 | 2.1157E+00 | 3.9818E+04 | 2.2808E+01 |
| 5.4500E+02 | 1.4432E-02 | 1.5840E+00 | 2.9811E+04 | 2.2749E+01 |
| 5.4600E+02 | 1.1593E-02 | 1.2725E+00 | 2.3948E+04 | 2.2708E+01 |
| 5.4700E+02 | 1.1160E-02 | 1.2250E+00 | 2.3054E+04 | 2.2666E+01 |
| 5.4800E+02 | 1.1064E-02 | 1.2144E+00 | 2.2855E+04 | 2.2625E+01 |
| 5.4900E+02 | 1.1112E-02 | 1.2197E+00 | 2.2955E+04 | 2.2584E+01 |
| 5.5000E+02 | 1.1016E-02 | 1.2091E+00 | 2.2756E+04 | 2.2543E+01 |
| 5.5100E+02 | 1.0872E-02 | 1.1933E+00 | 2.2458E+04 | 2.2502E+01 |
| 5.5200E+02 | 1.0727E-02 | 1.1775E+00 | 2.2160E+04 | 2.2461E+01 |
| 5.5300E+02 | 1.0583E-02 | 1.1616E+00 | 2.1861E+04 | 2.2420E+01 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2$ $\mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 5.5400E+02 | 1.0391E-02 | 1.1405E+00 | 2.1464E+04 | 2.2380E+01 |
| 5.5500E+02 | 1.0246E-02 | 1.1247E+00 | 2.1166E+04 | 2.2339E+01 |
| 5.5600E+02 | 1.0174E-02 | 1.1167E+00 | 2.1017E+04 | 2.2299E+01 |
| 5.5700E+02 | 1.0126E-02 | 1.1115E+00 | 2.0917E+04 | 2.2259E+01 |
| 5.5800E+02 | 1.0078E-02 | 1.1062E+00 | 2.0818E+04 | 2.2219E+01 |
| 5.5900E+02 | 1.0102E-02 | 1.1088E+00 | 2.0868E+04 | 2.2180E+01 |
| 5.6000E+02 | 1.0174E-02 | 1.1167E+00 | 2.1017E+04 | 2.2140E+01 |
| 5.6100E+02 | 1.0150E-02 | 1.1141E+00 | 2.0967E+04 | 2.2101E+01 |
| 5.6200E+02 | 1.0102E-02 | 1.1088E+00 | 2.0868E+04 | 2.2061E+01 |
| 5.6300E+02 | 1.0054E-02 | 1.1035E+00 | 2.0768E+04 | 2.2022E+01 |
| 5.6400E+02 | 9.9578E-03 | 1.0930E+00 | 2.0570E+04 | 2.1983E+01 |
| 5.6500E+02 | 9.9097E-03 | 1.0877E+00 | 2.0470E+04 | 2.1944E+01 |
| 5.6600E+02 | 9.8616E-03 | 1.0824E+00 | 2.0371E+04 | 2.1905E+01 |
| 5.6700E+02 | 9.7894E-03 | 1.0745E+00 | 2.0222E+04 | 2.1867E+01 |
| 5.6800E+02 | 9.7653E-03 | 1.0719E+00 | 2.0172E+04 | 2.1828E+01 |
| 5.6900E+02 | 9.7413E-03 | 1.0692E+00 | 2.0122E+04 | 2.1790E+01 |
| 5.7000E+02 | 9.7172E-03 | 1.0666E+00 | 2.0073E+04 | 2.1752E+01 |
| 5.7100E+02 | 9.6691E-03 | 1.0613E+00 | 1.9973E+04 | 2.1714E+01 |
| 5.7200E+02 | 9.6451E-03 | 1.0587E+00 | 1.9924E+04 | 2.1676E+01 |
| 5.7300E+02 | 9.5970E-03 | 1.0534E+00 | 1.9824E+04 | 2.1638E+01 |
| 5.7400E+02 | 9.5489E-03 | 1.0481E+00 | 1.9725E+04 | 2.1600E+01 |
| 5.7500E+02 | 9.4767E-03 | 1.0402E+00 | 1.9576E+04 | 2.1562E+01 |
| 5.7600E+02 | 9.4046E-03 | 1.0323E+00 | 1.9427E+04 | 2.1525E+01 |
| 5.7700E+02 | 9.3565E-03 | 1.0270E+00 | 1.9328E+04 | 2.1488E+01 |
| 5.7800E+02 | 9.2843E-03 | 1.0191E+00 | 1.9178E+04 | 2.1451E+01 |
| 5.7900E+02 | 9.2362E-03 | 1.0138E+00 | 1.9079E+04 | 2.1414E+01 |
| 5.8200E+02 | 9.0438E-03 | 9.9265E-01 | 1.8682E+04 | 2.1303E+01 |
| 5.8500E+02 | 8.9476E-03 | 9.8209E-01 | 1.8483E+04 | 2.1194E+01 |
| 5.8800E+02 | 8.8273E-03 | 9.6889E-01 | 1.8234E+04 | 2.1086E+01 |
| 5.9100E+02 | 8.7070E-03 | 9.5569E-01 | 1.7986E+04 | 2.0979E+01 |
| 5.9400E+02 | 8.6108E-03 | 9.4513E-01 | 1.7787E+04 | 2.0873E+01 |
| 5.9700E+02 | 8.4665E-03 | 9.2929E-01 | 1.7489E+04 | 2.0768E+01 |
| 6.0000E+02 | 8.3222E-03 | 9.1345E-01 | 1.7191E+04 | 2.0664E+01 |
| 7.0000E+02 | 5.5519E-03 | 6.0938E-01 | 1.1468E+04 | 1.7712E+01 |
| 8.0000E+02 | 3.9716E-03 | 4.3593E-01 | 8.2042E+03 | 1.5498E+01 |
| 9.0000E+02 | 2.9383E-03 | 3.2251E-01 | 6.0696E+03 | 1.3776E+01 |

Table II. Oscillator-strength density, $\mathrm{d}f/\mathrm{d}E$, photoabsorption cross section, $\sigma_{\mathrm{a}}$, and mass absorption coefficient, $\mu_{\mathrm{m}}$. (Continued)

| Energy (eV) | $f_n$ ($\mathrm{eV}^{-1}$) | $\sigma_a$ (Mb) | $\mu_{\mathrm{m}}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$) | $\lambda$ (Å) |
|---|---|---|---|---|
| 1.0000E+03 | 2.2340E-03 | 2.4521E-01 | 4.6149E+03 | 1.2398E+01 |
| 1.2500E+03 | 1.2350E-03 | 1.3556E-01 | 2.5512E+03 | 9.9187E+00 |
| 1.5000E+03 | 7.5278E-04 | 8.2625E-02 | 1.5550E+03 | 8.2656E+00 |
| 1.7500E+03 | 4.9222E-04 | 5.4027E-02 | 1.0168E+03 | 7.0848E+00 |
| 2.0000E+03 | 3.3935E-04 | 3.7247E-02 | 7.0098E+02 | 6.1992E+00 |
| 2.2500E+03 | 2.4381E-04 | 2.6761E-02 | 5.0364E+02 | 5.5104E+00 |
| 2.5000E+03 | 1.8107E-04 | 1.9874E-02 | 3.7403E+02 | 4.9594E+00 |
| 2.7500E+03 | 1.3731E-04 | 1.5071E-02 | 2.8364E+02 | 4.5085E+00 |
| 3.0000E+03 | 1.0655E-04 | 1.1695E-02 | 2.2011E+02 | 4.1328E+00 |
| 3.5000E+03 | 6.7597E-05 | 7.4195E-03 | 1.3963E+02 | 3.5424E+00 |
| 4.0000E+03 | 4.5365E-05 | 4.9793E-03 | 9.3710E+01 | 3.0996E+00 |
| 4.5000E+03 | 3.1823E-05 | 3.4930E-03 | 6.5737E+01 | 2.7552E+00 |
| 5.0000E+03 | 2.3133E-05 | 2.5391E-03 | 4.7786E+01 | 2.4797E+00 |
| 6.0000E+03 | 1.3277E-05 | 1.4573E-03 | 2.7426E+01 | 2.0664E+00 |
| 7.0000E+03 | 8.2788E-06 | 9.0869E-04 | 1.7102E+01 | 1.7712E+00 |
| 8.0000E+03 | 5.4879E-06 | 6.0236E-04 | 1.1336E+01 | 1.5498E+00 |
| 9.0000E+03 | 3.8127E-06 | 4.1849E-04 | 7.8759E+00 | 1.3776E+00 |
| 1.0000E+04 | 2.5916E-06 | 2.8446E-04 | 5.3534E+00 | 1.2398E+00 |
| 1.2500E+04 | 1.2711E-06 | 1.3951E-04 | 2.6256E+00 | 9.9187E-01 |
| 1.5000E+04 | 7.1030E-07 | 7.7964E-05 | 1.4673E+00 | 8.2656E-01 |
| 1.7500E+04 | 4.3422E-07 | 4.7661E-05 | 8.9697E-01 | 7.0848E-01 |
| 2.0000E+04 | 2.8347E-07 | 3.1113E-05 | 5.8555E-01 | 6.1992E-01 |
| 2.2500E+04 | 1.9462E-07 | 2.1362E-05 | 4.0203E-01 | 5.5104E-01 |
| 2.5000E+04 | 1.3904E-07 | 1.5261E-05 | 2.8721E-01 | 4.9594E-01 |
| 2.7500E+04 | 1.0228E-07 | 1.1227E-05 | 2.1129E-01 | 4.5085E-01 |
| 3.0000E+04 | 7.6953E-08 | 8.4465E-06 | 1.5896E-01 | 4.1328E-01 |
| 3.5000E+04 | 4.6444E-08 | 5.0977E-06 | 9.5938E-02 | 3.5424E-01 |
| 4.0000E+04 | 2.9993E-08 | 3.2920E-06 | 6.1956E-02 | 3.0996E-01 |
| 4.5000E+04 | 2.0394E-08 | 2.2384E-06 | 4.2127E-02 | 2.7552E-01 |
| 5.0000E+04 | 1.4443E-08 | 1.5853E-06 | 2.9835E-02 | 2.4797E-01 |
| 6.0000E+04 | 7.9503E-09 | 8.7263E-07 | 1.6423E-02 | 2.0664E-01 |
| 7.0000E+04 | 4.7994E-09 | 5.2678E-07 | 9.9140E-03 | 1.7712E-01 |
| 8.0000E+04 | 3.0981E-09 | 3.4005E-07 | 6.3997E-03 | 1.5498E-01 |
| 9.0000E+04 | 2.1041E-09 | 2.3095E-07 | 4.3464E-03 | 1.3776E-01 |
| 1.0000E+05 | 1.4877E-09 | 1.6329E-07 | 3.0732E-03 | 1.2398E-01 |

When photon energy, $E$, is higher than $10^5$ eV, the photoabsorption cross section, $\sigma_{\rm a}$, in Mb is given by

$$\sigma_{\rm a} \;=\; 680\,(Z-0.3)^6\left(\frac{Ry}{E}\right)^4\,\frac{\exp\left[-\,4\chi\,\arctan(\chi^{-1})\right]}{1-\exp\left(-\,2\pi\chi\right)}\;.$$

Here $E$ is photon energy in eV and $\chi$ is given by

$$\chi \;=\; \sqrt{\frac{E_{\rm K}}{E-E_{\rm K}}}\;,$$

where $E_{\rm K} \;=\; 543.9$ eV.