Hydrogen Sulfide (H_2S)

Z = 18 Molecular Mass : $M_{\rm A} = 34.08088$

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

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

Table I. Oscillator-strength 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})	σ_a (Mb)	$\mu_{\rm m}$ ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
5.2200E+00	1.1366E-03	1.2475E-01	2.2043E+03	2.3752E+03
5.3050E+00	1.8409E-03	2.0205E-01	3.5703E+03	2.3371E+03
5.3909E+00	3.2698E-03	3.5890E-01	6.3418E+03	2.2999E+03
5.4717E+00	5.2436E-03	5.7555E-01	1.0170E+04	2.2659E+03
5.5526E+00	7.7609E-03	8.5185E-01	1.5052E+04	2.2329E+03
5.6303E+00	1.0461E-02	1.1482E+00	2.0288E+04	2.2021E+03
5.7159E+00	1.4245E-02	1.5635E+00	2.7628E+04	2.1691E+03
5.8086E+00	1.9296E-02	2.1180E+00	3.7425E+04	2.1345E+03
5.8925E+00	2.4802E-02	2.7223E+00	4.8103E+04	2.1041E+03
5.9591E+00	3.0130E-02	3.3071E+00	5.8436E+04	2.0806E+03
6.0239E+00	3.6363E-02	3.9913E+00	7.0526E+04	2.0582E+03
6.0872E+00	4.4409E-02	4.8743E+00	8.6130E+04	2.0368E+03
6.1681E+00	5.6705E-02	6.2240E+00	1.0998E+05	2.0101E+03
6.1912E+00	5.9597E-02	6.5414E+00	1.1559E+05	2.0026E+03
6.2076E+00	6.0137E-02	6.6007E+00	1.1664E+05	1.9973E+03
6.2310E+00	5.8957E-02	6.4711E+00	1.1435E+05	1.9898E+03
6.2524E+00	5.8320E-02	6.4012E+00	1.1311E+05	1.9830E+03
6.2745E+00	5.8497E-02	6.4207E+00	1.1345E+05	1.9760E+03
6.2863E+00	5.9400E-02	6.5198E+00	1.1521E+05	1.9723E+03
6.3393E+00	6.4551E-02	7.0851E+00	1.2520E+05	1.9558E+03
6.3549E+00	6.5001E-02	7.1346E+00	1.2607E+05	1.9510E+03
6.3706E+00	6.4456E-02	7.0748E+00	1.2501E+05	1.9462E+03
6.4071E+00	5.9924E-02	6.5773E+00	1.1622E+05	1.9351E+03
6.4334E+00	5.5938E-02	6.1398E+00	1.0849E+05	1.9272E+03
6.4545E+00	5.4848E-02	6.0202E+00	1.0638E+05	1.9209E+03
6.4778E+00	5.4754E-02	6.0099E+00	1.0620E+05	1.9140E+03
6.4995E+00	5.5113E-02	6.0492E+00	1.0689E+05	1.9076E+03
6.5193E+00	5.4024E-02	5.9297E+00	1.0478E+05	1.9018E+03
6.5448E+00	5.0490E-02	5.5418E+00	9.7924E+04	1.8944E+03

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
6.5942E+00	4.2789E-02	4.6965E+00	8.2989E+04	1.8802E+03
6.6316E+00	4.0610E-02	4.4574E+00	7.8764E+04	1.8696E+03
6.6615E+00	3.8525E-02	4.2285E+00	7.4719E+04	1.8612E+03
6.7037E+00	3.4355E-02	3.7708E+00	6.6631E+04	1.8495E+03
6.7456E+00	2.8737E-02	3.1542E+00	5.5735E+04	1.8380E+03
6.7948E+00	2.5653E-02	2.8157E+00	4.9753E+04	1.8247E+03
6.8303E+00	2.3022E-02	2.5270E+00	4.4652E+04	1.8152E+03
6.8640E+00	1.9488E-02	2.1390E+00	3.7797E+04	1.8063E+03
6.9087E+00	1.6586E-02	1.8205E+00	3.2168E+04	1.7946E+03
6.9537E+00	1.4226E-02	1.5615E+00	2.7592E+04	1.7830E+03
7.0542E+00	1.0049E-02	1.1030E+00	1.9490E+04	1.7576E+03
7.1975E+00	5.6866E-03	6.2417E-01	1.1029E+04	1.7226E+03
7.3424E+00	2.9537E-03	3.2420E-01	5.7287E+03	1.6886E+03
7.5074E+00	1.5767E-03	1.7306E-01	3.0580E+03	1.6515E+03
7.6600E+00	1.1072E-03	1.2152E-01	2.1473E+03	1.6186E+03
7.7519E+00	1.2783E-03	1.4031E-01	2.4793E+03	1.5994E+03
7.8000E+00	2.5512E-03	2.8002E-01	4.9481E+03	1.5895E+03
7.8061E+00	1.2646E-02	1.3880E+00	2.4526E+04	1.5883E+03
7.8219E+00	4.1805E-02	4.5885E+00	8.1080E+04	1.5851E+03
7.8387E+00	1.0346E-01	1.1356E+01	2.0067E+05	1.5817E+03
7.8506E+00	5.7879E-02	6.3528E+00	1.1226E+05	1.5793E+03
7.8580E+00	5.6208E-02	6.1694E+00	1.0901E+05	1.5778E+03
7.8760E+00	2.8464E-02	3.1242E+00	5.5205E+04	1.5742E+03
7.8895E+00	7.4785E-04	8.2084E-02	1.4504E+03	1.5715E+03
7.9380E+00	4.5090E-04	4.9491E-02	8.7451E+02	1.5619E+03
7.9554E+00	1.3350E-02	1.4653E+00	2.5891E+04	1.5585E+03
7.9625E+00	1.8182E-02	1.9957E+00	3.5264E+04	1.5571E+03
7.9692E+00	3.4396E-02	3.7753E+00	6.6711E+04	1.5558E+03
7.9810E+00	4.4077E-02	4.8380E+00	8.5488E+04	1.5535E+03
7.9902E+00	8.4657E-02	9.2921E+00	1.6419E+05	1.5517E+03
8.0010E+00	1.1873E-01	1.3032E+01	2.3028E+05	1.5496E+03
8.0078E+00	1.9670E-01	2.1590E+01	3.8150E+05	1.5483E+03
8.0166E+00	3.6245E-01	3.9783E+01	7.0296E+05	1.5466E+03
8.0202E+00	4.8433E-01	5.3161E+01	9.3936E+05	1.5459E+03
8.0347E+00	3.0057E-01	3.2991E+01	5.8296E+05	1.5431E+03
8.0467E+00	1.8022E-01	1.9781E+01	3.4953E+05	1.5408E+03

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
8.0609E+00	9.0738E-02	9.9595E+00	1.7599E+05	1.5381E+03
8.0735E+00	5.4902E-02	6.0261E+00	1.0648E+05	1.5357E+03
8.0903E+00	3.2047E-02	3.5175E+00	6.2155E+04	1.5325E+03
8.1094E+00	4.0063E-02	4.3973E+00	7.7701E+04	1.5289E+03
8.1269E+00	9.3599E-02	1.0274E+01	1.8154E+05	1.5256E+03
8.1365E+00	5.9410E-02	6.5209E+00	1.1523E+05	1.5238E+03
8.1435E+00	5.6119E-02	6.1597E+00	1.0884E+05	1.5225E+03
8.1515E+00	7.7204E-02	8.4739E+00	1.4974E+05	1.5210E+03
8.1633E+00	1.4866E-01	1.6317E+01	2.8832E+05	1.5188E+03
8.1719E+00	2.5101E-01	2.7551E+01	4.8683E+05	1.5172E+03
8.1757E+00	7.0611E-01	7.7503E+01	1.3695E+06	1.5165E+03
8.1789E+00	3.3874E-01	3.7181E+01	6.5699E+05	1.5159E+03
8.1827E+00	2.4282E-01	2.6652E+01	4.7095E+05	1.5152E+03
8.1886E+00	3.0618E-01	3.3607E+01	5.9383E+05	1.5141E+03
8.2011E+00	1.7281E-01	1.8968E+01	3.3517E+05	1.5118E+03
8.2120E+00	4.4258E-01	4.8578E+01	8.5838E+05	1.5098E+03
8.2169E+00	2.2799E-01	2.5025E+01	4.4219E+05	1.5089E+03
8.2436E+00	1.3357E-01	1.4661E+01	2.5906E+05	1.5040E+03
8.2508E+00	1.6603E-01	1.8224E+01	3.2202E+05	1.5027E+03
8.2607E+00	2.7000E-01	2.9636E+01	5.2367E+05	1.5009E+03
8.2662E+00	8.4863E-01	9.3146E+01	1.6459E+06	1.4999E+03
8.2711E+00	1.9192E-01	2.1066E+01	3.7224E+05	1.4990E+03
8.2772E+00	2.4553E-01	2.6950E+01	4.7621E+05	1.4979E+03
8.2805E+00	3.2029E-01	3.5155E+01	6.2119E+05	1.4973E+03
8.2816E+00	2.5039E-01	2.7483E+01	4.8562E+05	1.4971E+03
8.2866E+00	2.1460E-01	2.3554E+01	4.1621E+05	1.4962E+03
8.2866E+00	2.1460E-01	2.3554E+01	4.1621E+05	1.4962E+03
8.2888E+00	1.3656E-01	1.4989E+01	2.6486E+05	1.4958E+03
8.2977E+00	6.1745E-02	6.7772E+00	1.1975E+05	1.4942E+03
8.3094E+00	1.9171E-01	2.1042E+01	3.7182E+05	1.4921E+03
8.3149E+00	2.8271E-01	3.1031E+01	5.4832E+05	1.4911E+03
8.3177E+00	4.7775E-01	5.2438E+01	9.2658E+05	1.4906E+03
8.3205E+00	2.8268E-01	3.1027E+01	5.4825E+05	1.4901E+03
8.3244E+00	2.5015E-01	2.7457E+01	4.8516E+05	1.4894E+03
8.3267E+00	1.9975E-01	2.1924E+01	3.8741E+05	1.4890E+03
8.3412E+00	1.6553E-01	1.8169E+01	3.2104E+05	1.4864E+03

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
8.3463E+00	1.3787E-01	1.5133E+01	2.6741E+05	1.4855E+03
8.3536E+00	7.1188E-02	7.8137E+00	1.3807E+05	1.4842E+03
8.3598E+00	7.1155E-02	7.8100E+00	1.3800E+05	1.4831E+03
8.3683E+00	3.8600E-02	4.2368E+00	7.4865E+04	1.4816E+03
8.3762E+00	4.1807E-02	4.5888E+00	8.1084E+04	1.4802E+03
8.3915E+00	7.2607E-02	7.9694E+00	1.4082E+05	1.4775E+03
8.4012E+00	1.1157E-01	1.2245E+01	2.1638E+05	1.4758E+03
8.4057E+00	2.0257E-01	2.2234E+01	3.9288E+05	1.4750E+03
8.4148E+00	8.2233E-02	9.0260E+00	1.5949E+05	1.4734E+03
8.4257E+00	1.0981E-01	1.2053E+01	2.1298E+05	1.4715E+03
8.4354E+00	9.1873E-02	1.0084E+01	1.7819E+05	1.4698E+03
8.4423E+00	9.9964E-02	1.0972E+01	1.9388E+05	1.4686E+03
8.4481E+00	1.3894E-01	1.5250E+01	2.6947E+05	1.4676E+03
8.4562E+00	2.3317E-01	2.5593E+01	4.5223E+05	1.4662E+03
8.4585E+00	3.5995E-01	3.9509E+01	6.9812E+05	1.4658E+03
8.4648E+00	2.8514E-01	3.1298E+01	5.5303E+05	1.4647E+03
8.4723E+00	2.5259E-01	2.7725E+01	4.8990E+05	1.4634E+03
8.4921E+00	1.3708E-01	1.5046E+01	2.6586E+05	1.4600E+03
8.5020E+00	1.6954E-01	1.8609E+01	3.2883E+05	1.4583E+03
8.5055E+00	3.0443E-01	3.3414E+01	5.9043E+05	1.4577E+03
8.5096E+00	1.9063E-01	2.0924E+01	3.6973E+05	1.4570E+03
8.5142E+00	1.3696E-01	1.5033E+01	2.6563E+05	1.4562E+03
8.5195E+00	1.3694E-01	1.5030E+01	2.6559E+05	1.4553E+03
8.5318E+00	9.2986E-02	1.0206E+01	1.8035E+05	1.4532E+03
8.5383E+00	1.0921E-01	1.1987E+01	2.1181E+05	1.4521E+03
8.5442E+00	1.3193E-01	1.4481E+01	2.5589E+05	1.4511E+03
8.5500E+00	1.3190E-01	1.4478E+01	2.5582E+05	1.4501E+03
8.5565E+00	1.9039E-01	2.0897E+01	3.6925E+05	1.4490E+03
8.5619E+00	2.4724E-01	2.7138E+01	4.7953E+05	1.4481E+03
8.5701E+00	1.5455E-01	1.6964E+01	2.9976E+05	1.4467E+03
8.5749E+00	1.6428E-01	1.8032E+01	3.1862E+05	1.4459E+03
8.5820E+00	1.2523E-01	1.3745E+01	2.4288E+05	1.4447E+03
8.5891E+00	8.6184E-02	9.4597E+00	1.6715E+05	1.4435E+03
8.5969E+00	1.2028E-01	1.3202E+01	2.3328E+05	1.4422E+03
8.6112E+00	9.2571E-02	1.0161E+01	1.7954E+05	1.4398E+03
8.6268E+00	1.1849E-01	1.3006E+01	2.2982E+05	1.4372E+03

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
8.6352E+00	1.8509E-01	2.0316E+01	3.5898E+05	1.4358E+03
8.6412E+00	2.5658E-01	2.8163E+01	4.9764E+05	1.4348E+03
8.6503E+00	4.5646E-01	5.0102E+01	8.8530E+05	1.4333E+03
8.6533E+00	6.4175E-01	7.0439E+01	1.2447E+06	1.4328E+03
8.6563E+00	5.1821E-01	5.6879E+01	1.0051E+06	1.4323E+03
8.6617E+00	6.2382E-01	6.8471E+01	1.2099E+06	1.4314E+03
8.6660E+00	6.3193E-01	6.9362E+01	1.2256E+06	1.4307E+03
8.6684E+00	7.0669E-01	7.7567E+01	1.3706E+06	1.4303E+03
8.6745E+00	5.9776E-01	6.5611E+01	1.1593E+06	1.4293E+03
8.6866E+00	3.8151E-01	4.1875E+01	7.3994E+05	1.4273E+03
8.6958E+00	2.9044E-01	3.1879E+01	5.6330E+05	1.4258E+03
8.7104E+00	2.0421E-01	2.2415E+01	3.9607E+05	1.4234E+03
8.7221E+00	1.9116E-01	2.0982E+01	3.7075E+05	1.4215E+03
8.7337E+00	2.2360E-01	2.4543E+01	4.3368E+05	1.4196E+03
8.7553E+00	1.6823E-01	1.8465E+01	3.2628E+05	1.4161E+03
8.7702E+00	2.1855E-01	2.3988E+01	4.2387E+05	1.4137E+03
8.7770E+00	3.5668E-01	3.9149E+01	6.9178E+05	1.4126E+03
8.7851E+00	1.1108E+00	1.2192E+02	2.1544E+06	1.4113E+03
8.8057E+00	2.0405E+00	2.2397E+02	3.9576E+06	1.4080E+03
8.8113E+00	1.1400E+00	1.2512E+02	2.2110E+06	1.4071E+03
8.8207E+00	4.2960E-01	4.7154E+01	8.3321E+05	1.4056E+03
8.8346E+00	3.3526E-01	3.6798E+01	6.5022E+05	1.4034E+03
8.8738E+00	2.8468E-01	3.1247E+01	5.5214E+05	1.3972E+03
8.8865E+00	4.8292E-01	5.3006E+01	9.3662E+05	1.3952E+03
8.8992E+00	1.0892E+00	1.1955E+02	2.1125E+06	1.3932E+03
8.9037E+00	9.1194E-01	1.0010E+02	1.7687E+06	1.3925E+03
8.9114E+00	2.0839E+00	2.2873E+02	4.0417E+06	1.3913E+03
8.9152E+00	8.3388E-01	9.1527E+01	1.6173E+06	1.3907E+03
8.9242E+00	1.5686E+00	1.7217E+02	3.0422E+06	1.3893E+03
8.9326E+00	7.0701E-01	7.7602E+01	1.3712E+06	1.3880E+03
8.9410E+00	2.5184E-01	2.7642E+01	4.8844E+05	1.3867E+03
8.9779E+00	1.5089E-01	1.6562E+01	2.9266E+05	1.3810E+03
9.0046E+00	1.6051E-01	1.7618E+01	3.1132E+05	1.3769E+03
9.0190E+00	1.8971E-01	2.0823E+01	3.6794E+05	1.3747E+03
9.0348E+00	1.8801E-01	2.0636E+01	3.6464E+05	1.3723E+03
9.0638E+00	2.1063E-01	2.3119E+01	4.0851E+05	1.3679E+03

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
9.0798E+00	1.9593E-01	2.1505E+01	3.8000E+05	1.3655E+03
9.0984E+00	2.4622E-01	2.7026E+01	4.7755E+05	1.3627E+03
9.1084E+00	2.5755E-01	2.8269E+01	4.9952E+05	1.3612E+03
9.1279E+00	1.8758E-01	2.0589E+01	3.6381E+05	1.3583E+03
9.1481E+00	1.7447E-01	1.9150E+01	3.3839E+05	1.3553E+03
9.1650E+00	1.9066E-01	2.0926E+01	3.6977E+05	1.3528E+03
9.1847E+00	1.8731E-01	2.0559E+01	3.6328E+05	1.3499E+03
9.1963E+00	2.3927E-01	2.6263E+01	4.6406E+05	1.3482E+03
9.2113E+00	2.8960E-01	3.1787E+01	5.6167E+05	1.3460E+03
9.2147E+00	4.2937E-01	4.7128E+01	8.3275E+05	1.3455E+03
9.2161E+00	3.1721E-01	3.4817E+01	6.1523E+05	1.3453E+03
9.2243E+00	2.7166E-01	2.9818E+01	5.2688E+05	1.3441E+03
9.2319E+00	2.9600E-01	3.2489E+01	5.7409E+05	1.3430E+03
9.2360E+00	2.6185E-01	2.8741E+01	5.0785E+05	1.3424E+03
9.2512E+00	2.3252E-01	2.5522E+01	4.5098E+05	1.3402E+03
9.2629E+00	2.3247E-01	2.5516E+01	4.5087E+05	1.3385E+03
9.2858E+00	2.1774E-01	2.3899E+01	4.2230E+05	1.3352E+03
9.3053E+00	3.2656E-01	3.5844E+01	6.3336E+05	1.3324E+03
9.3102E+00	1.0808E+00	1.1863E+02	2.0962E+06	1.3317E+03
9.3179E+00	3.9315E-01	4.3152E+01	7.6251E+05	1.3306E+03
9.3235E+00	5.2803E-01	5.7957E+01	1.0241E+06	1.3298E+03
9.3298E+00	3.2158E-01	3.5297E+01	6.2370E+05	1.3289E+03
9.3439E+00	1.9473E-01	2.1374E+01	3.7768E+05	1.3269E+03
9.3524E+00	1.7682E-01	1.9408E+01	3.4294E+05	1.3257E+03
9.3630E+00	1.9465E-01	2.1365E+01	3.7752E+05	1.3242E+03
9.4127E+00	1.4891E-01	1.6345E+01	2.8882E+05	1.3172E+03
9.4227E+00	1.6187E-01	1.7767E+01	3.1395E+05	1.3158E+03
9.4407E+00	2.3657E-01	2.5966E+01	4.5883E+05	1.3133E+03
9.4428E+00	5.9415E-01	6.5215E+01	1.1524E+06	1.3130E+03
9.4500E+00	2.3815E-01	2.6140E+01	4.6189E+05	1.3120E+03
9.4572E+00	4.5593E-01	5.0044E+01	8.8428E+05	1.3110E+03
9.4601E+00	3.0963E-01	3.3986E+01	6.0053E+05	1.3106E+03
9.4637E+00	2.9824E-01	3.2735E+01	5.7843E+05	1.3101E+03
9.4738E+00	1.2752E-01	1.3997E+01	2.4733E+05	1.3087E+03
9.4869E+00	1.1121E-01	1.2207E+01	2.1569E+05	1.3069E+03
9.5116E+00	1.6962E-01	1.8617E+01	3.2897E+05	1.3035E+03

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
9.5263E+00	2.2482E-01	2.4676E+01	4.3604E+05	1.3015E+03
9.5321E+00	3.8572E-01	4.2337E+01	7.4810E+05	1.3007E+03
9.5350E+00	7.4818E-01	8.2121E+01	1.4511E+06	1.3003E+03
9.5394E+00	7.1403E-01	7.8372E+01	1.3848E+06	1.2997E+03
9.5490E+00	1.1822E+00	1.2975E+02	2.2928E+06	1.2984E+03
9.5630E+00	3.4982E-01	3.8397E+01	6.7848E+05	1.2965E+03
9.5748E+00	2.5225E-01	2.7687E+01	4.8923E+05	1.2949E+03
9.5837E+00	3.0260E-01	3.3213E+01	5.8688E+05	1.2937E+03
9.5948E+00	6.9754E-01	7.6563E+01	1.3529E+06	1.2922E+03
9.6052E+00	7.3650E-01	8.0839E+01	1.4284E+06	1.2908E+03
9.6119E+00	1.4028E+00	1.5398E+02	2.7208E+06	1.2899E+03
9.6149E+00	7.6897E-01	8.4403E+01	1.4914E+06	1.2895E+03
9.6216E+00	7.4781E-01	8.2081E+01	1.4504E+06	1.2886E+03
9.6321E+00	3.8530E-01	4.2291E+01	7.4729E+05	1.2872E+03
9.6478E+00	2.7958E-01	3.0687E+01	5.4224E+05	1.2851E+03
9.6659E+00	2.8600E-01	3.1392E+01	5.5470E+05	1.2827E+03
9.7802E+00	1.5714E-01	1.7247E+01	3.0476E+05	1.2677E+03
9.7864E+00	1.7661E-01	1.9385E+01	3.4254E+05	1.2669E+03
9.7911E+00	2.8712E-01	3.1515E+01	5.5687E+05	1.2663E+03
9.7957E+00	5.3092E-01	5.8275E+01	1.0297E+06	1.2657E+03
9.7988E+00	2.9198E-01	3.2048E+01	5.6629E+05	1.2653E+03
9.8050E+00	3.8784E-01	4.2570E+01	7.5222E+05	1.2645E+03
9.8143E+00	1.8463E-01	2.0265E+01	3.5809E+05	1.2633E+03
9.8330E+00	8.5406E-02	9.3743E+00	1.6564E+05	1.2609E+03
9.8478E+00	2.5276E-01	2.7744E+01	4.9024E+05	1.2590E+03
9.8525E+00	1.7635E-01	1.9357E+01	3.4204E+05	1.2584E+03
9.8572E+00	2.3485E-01	2.5777E+01	4.5549E+05	1.2578E+03
9.8714E+00	9.6633E-02	1.0607E+01	1.8742E+05	1.2560E+03
9.8792E+00	1.3561E-01	1.4885E+01	2.6302E+05	1.2550E+03
9.8879E+00	4.5253E-01	4.9671E+01	8.7769E+05	1.2539E+03
9.8966E+00	7.3371E-01	8.0532E+01	1.4230E+06	1.2528E+03
9.9037E+00	5.2399E-01	5.7514E+01	1.0163E+06	1.2519E+03
9.9116E+00	7.0763E-01	7.7671E+01	1.3725E+06	1.2509E+03
9.9164E+00	6.3122E-01	6.9284E+01	1.2243E+06	1.2503E+03
9.9227E+00	8.2950E-01	9.1046E+01	1.6088E+06	1.2495E+03
9.9307E+00	4.7350E-01	5.1971E+01	9.1834E+05	1.2485E+03

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
9.9394E+00	4.1982E-01	4.6080E+01	8.1424E+05	1.2474E+03
9.9466E+00	2.8651E-01	3.1448E+01	5.5568E+05	1.2465E+03
9.9714E+00	1.7427E-01	1.9128E+01	3.3799E+05	1.2434E+03
9.9915E+00	1.8069E-01	1.9833E+01	3.5045E+05	1.2409E+03
1.0008E+01	1.6763E-01	1.8399E+01	3.2511E+05	1.2389E+03
1.0026E+01	2.8946E-01	3.1771E+01	5.6140E+05	1.2366E+03
1.0034E+01	2.5854E-01	2.8378E+01	5.0144E+05	1.2356E+03
1.0063E+01	1.3490E-01	1.4807E+01	2.6165E+05	1.2321E+03
1.0074E+01	2.5189E-01	2.7648E+01	4.8854E+05	1.2307E+03
1.0082E+01	5.1193E-01	5.6190E+01	9.9289E+05	1.2298E+03
1.0091E+01	8.7274E-01	9.5793E+01	1.6927E+06	1.2287E+03
1.0108E+01	4.4518E-01	4.8864E+01	8.6343E+05	1.2266E+03
1.0122E+01	1.8507E-01	2.0313E+01	3.5894E+05	1.2249E+03
1.0139E+01	1.2811E-01	1.4062E+01	2.4848E+05	1.2228E+03
1.0149E+01	1.4271E-01	1.5664E+01	2.7678E+05	1.2216E+03
1.0153E+01	1.9145E-01	2.1014E+01	3.7132E+05	1.2212E+03
1.0167E+01	2.4666E-01	2.7074E+01	4.7840E+05	1.2195E+03
1.0181E+01	1.6697E-01	1.8327E+01	3.2384E+05	1.2178E+03
1.0187E+01	2.6285E-01	2.8850E+01	5.0979E+05	1.2171E+03
1.0192E+01	7.3420E-01	8.0587E+01	1.4240E+06	1.2165E+03
1.0209E+01	3.2941E-01	3.6157E+01	6.3889E+05	1.2145E+03
1.0215E+01	2.4649E-01	2.7055E+01	4.7807E+05	1.2138E+03
1.0225E+01	2.1232E-01	2.3304E+01	4.1179E+05	1.2126E+03
1.0233E+01	2.5780E-01	2.8296E+01	5.0000E+05	1.2116E+03
1.0247E+01	1.8623E-01	2.0441E+01	3.6120E+05	1.2100E+03
1.0247E+01	2.1874E-01	2.4009E+01	4.2424E+05	1.2099E+03
1.0256E+01	2.6096E-01	2.8644E+01	5.0614E+05	1.2089E+03
1.0264E+01	5.0475E-01	5.5402E+01	9.7897E+05	1.2080E+03
1.0270E+01	2.7879E-01	3.0601E+01	5.4072E+05	1.2072E+03
1.0284E+01	2.1860E-01	2.3994E+01	4.2397E+05	1.2056E+03
1.0290E+01	2.5760E-01	2.8274E+01	4.9961E+05	1.2049E+03
1.0294E+01	4.1036E-01	4.5042E+01	7.9590E+05	1.2044E+03
1.0305E+01	2.9655E-01	3.2550E+01	5.7516E+05	1.2032E+03
1.0327E+01	2.4446E-01	2.6832E+01	4.7412E+05	1.2006E+03
1.0334E+01	3.0295E-01	3.3252E+01	5.8757E+05	1.1998E+03
1.0343E+01	2.8504E-01	3.1286E+01	5.5282E+05	1.1987E+03

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
1.0350E+01	3.4027E-01	3.7348E+01	6.5995E+05	1.1979E+03
1.0364E+01	2.5245E-01	2.7709E+01	4.8963E+05	1.1963E+03
1.0367E+01	3.0608E-01	3.3596E+01	5.9365E+05	1.1960E+03
1.0371E+01	4.0197E-01	4.4121E+01	7.7962E+05	1.1955E+03
1.0379E+01	3.8243E-01	4.1976E+01	7.4172E+05	1.1946E+03
1.0387E+01	4.0678E-01	4.4649E+01	7.8895E+05	1.1936E+03
1.0394E+01	3.5149E-01	3.8580E+01	6.8172E+05	1.1928E+03
1.0414E+01	3.4980E-01	3.8395E+01	6.7844E+05	1.1905E+03
1.0422E+01	3.1238E-01	3.4287E+01	6.0586E+05	1.1896E+03
1.0436E+01	3.2859E-01	3.6067E+01	6.3731E+05	1.1881E+03
1.0467E+01	3.2919E-01	3.6133E+01	6.3847E+05	1.1846E+03
1.0700E+01	3.4640E-01	3.8021E+01	6.7183E+05	1.1587E+03
1.1200E+01	3.8726E-01	4.2506E+01	7.5109E+05	1.1070E+03
1.1700E+01	4.1252E-01	4.5278E+01	8.0007E+05	1.0597E+03
1.2200E+01	4.1102E-01	4.5114E+01	7.9717E+05	1.0163E+03
1.2700E+01	4.2280E-01	4.6406E+01	8.2001E+05	9.7625E+02
1.3200E+01	4.9175E-01	5.3974E+01	9.5374E+05	9.3927E+02
1.3700E+01	5.4188E-01	5.9477E+01	1.0510E+06	9.0499E+02
1.4200E+01	5.4376E-01	5.9684E+01	1.0546E+06	8.7313E+02
1.4700E+01	5.2847E-01	5.8005E+01	1.0250E+06	8.4343E+02
1.5200E+01	5.1689E-01	5.6734E+01	1.0025E+06	8.1569E+02
1.5700E+01	5.0290E-01	5.5199E+01	9.7537E+05	7.8971E+02
1.6200E+01	4.8870E-01	5.3641E+01	9.4784E+05	7.6533E+02
1.6700E+01	4.7003E-01	5.1591E+01	9.1162E+05	7.4242E+02
1.7200E+01	4.4990E-01	4.9382E+01	8.7258E+05	7.2084E+02
1.7700E+01	4.2820E-01	4.6999E+01	8.3049E+05	7.0048E+02
1.8200E+01	4.0933E-01	4.4928E+01	7.9388E+05	6.8123E+02
1.8700E+01	3.8878E-01	4.2673E+01	7.5403E+05	6.6302E+02
1.9200E+01	3.6230E-01	3.9766E+01	7.0268E+05	6.4575E+02
1.9700E+01	3.4239E-01	3.7581E+01	6.6406E+05	6.2936E+02
2.0200E+01	3.1641E-01	3.4729E+01	6.1367E+05	6.1378E+02
2.0700E+01	2.9538E-01	3.2421E+01	5.7288E+05	5.9896E+02
2.1200E+01	2.7798E-01	3.0511E+01	5.3914E+05	5.8483E+02
2.1700E+01	2.5941E-01	2.8473E+01	5.0313E+05	5.7136E+02
2.2200E+01	2.4167E-01	2.6526E+01	4.6872E+05	5.5849E+02
2.2700E+01	2.2382E-01	2.4567E+01	4.3410E+05	5.4619E+02

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
2.3200E+01	2.0892E-01	2.2932E+01	4.0521E+05	5.3441E+02
2.3700E+01	1.8830E-01	2.0668E+01	3.6520E+05	5.2314E+02
2.4200E+01	1.7298E-01	1.8986E+01	3.3549E+05	5.1233E+02
2.4700E+01	1.5981E-01	1.7541E+01	3.0995E+05	5.0196E+02
2.5200E+01	1.4784E-01	1.6228E+01	2.8674E+05	4.9200E+02
2.5500E+01	1.3081E-01	1.4358E+01	2.5371E+05	4.8621E+02
2.5700E+01	1.2536E-01	1.3760E+01	2.4313E+05	4.8243E+02
2.6200E+01	1.1385E-01	1.2496E+01	2.2080E+05	4.7322E+02
2.6700E+01	1.0243E-01	1.1243E+01	1.9867E+05	4.6436E+02
2.7200E+01	9.3647E-02	1.0279E+01	1.8163E+05	4.5582E+02
2.7700E+01	8.3449E-02	9.1595E+00	1.6185E+05	4.4760E+02
2.8200E+01	7.6885E-02	8.4390E+00	1.4912E+05	4.3966E+02
2.8700E+01	6.9918E-02	7.6743E+00	1.3561E+05	4.3200E+02
2.9200E+01	6.2650E-02	6.8765E+00	1.2151E+05	4.2460E+02
2.9700E+01	5.6391E-02	6.1895E+00	1.0937E+05	4.1746E+02
3.0200E+01	5.1848E-02	5.6909E+00	1.0056E+05	4.1054E+02
3.0700E+01	4.6196E-02	5.0705E+00	8.9597E+04	4.0386E+02
3.1200E+01	4.2663E-02	4.6827E+00	8.2744E+04	3.9739E+02
3.1700E+01	4.0340E-02	4.4278E+00	7.8240E+04	3.9112E+02
3.2200E+01	3.8422E-02	4.2172E+00	7.4518E+04	3.8504E+02
3.2700E+01	3.6200E-02	3.9734E+00	7.0211E+04	3.7916E+02
3.3200E+01	3.2669E-02	3.5858E+00	6.3361E+04	3.7345E+02
3.3700E+01	3.0953E-02	3.3974E+00	6.0033E+04	3.6791E+02
3.4200E+01	2.8329E-02	3.1095E+00	5.4945E+04	3.6253E+02
3.4700E+01	2.8529E-02	3.1314E+00	5.5332E+04	3.5730E+02
3.5200E+01	2.5402E-02	2.7882E+00	4.9267E+04	3.5223E+02
3.5700E+01	2.6408E-02	2.8986E+00	5.1219E+04	3.4729E+02
3.6200E+01	2.3988E-02	2.6329E+00	4.6524E+04	3.4250E+02
3.6700E+01	2.3281E-02	2.5553E+00	4.5153E+04	3.3783E+02
3.7200E+01	2.3279E-02	2.5551E+00	4.5150E+04	3.3329E+02
3.7700E+01	2.2371E-02	2.4554E+00	4.3387E+04	3.2887E+02
3.8200E+01	2.1361E-02	2.3446E+00	4.1430E+04	3.2457E+02
3.8700E+01	2.0554E-02	2.2560E+00	3.9864E+04	3.2037E+02
3.9200E+01	1.9646E-02	2.1563E+00	3.8103E+04	3.1629E+02
3.9700E+01	1.9745E-02	2.1672E+00	3.8296E+04	3.1230E+02
4.0200E+01	1.9341E-02	2.1229E+00	3.7512E+04	3.0842E+02

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
4.1200E+01	1.8835E-02	2.0673E+00	3.6530E+04	3.0093E+02
4.2200E+01	1.8026E-02	1.9786E+00	3.4962E+04	2.9380E+02
4.3200E+01	1.7420E-02	1.9120E+00	3.3786E+04	2.8700E+02
4.4200E+01	1.6713E-02	1.8344E+00	3.2414E+04	2.8051E+02
4.5200E+01	1.6308E-02	1.7900E+00	3.1629E+04	2.7430E+02
4.6200E+01	1.5903E-02	1.7455E+00	3.0844E+04	2.6836E+02
4.7200E+01	1.5398E-02	1.6900E+00	2.9863E+04	2.6268E+02
4.8200E+01	1.5094E-02	1.6567E+00	2.9274E+04	2.5723E+02
4.9200E+01	1.4689E-02	1.6123E+00	2.8489E+04	2.5200E+02
5.0200E+01	1.4385E-02	1.5789E+00	2.7900E+04	2.4698E+02
5.1200E+01	1.4082E-02	1.5456E+00	2.7311E+04	2.4216E+02
5.2200E+01	1.3878E-02	1.5233E+00	2.6917E+04	2.3752E+02
5.3200E+01	1.3776E-02	1.5121E+00	2.6718E+04	2.3305E+02
5.4200E+01	1.3271E-02	1.4567E+00	2.5740E+04	2.2875E+02
5.5200E+01	1.3169E-02	1.4455E+00	2.5541E+04	2.2461E+02
5.6200E+01	1.3067E-02	1.4342E+00	2.5343E+04	2.2061E+02
5.7200E+01	1.2663E-02	1.3899E+00	2.4560E+04	2.1676E+02
5.8200E+01	1.2259E-02	1.3456E+00	2.3777E+04	2.1303E+02
5.9200E+01	1.2057E-02	1.3234E+00	2.3384E+04	2.0943E+02
6.0200E+01	1.1955E-02	1.3121E+00	2.3186E+04	2.0595E+02
6.1200E+01	1.1652E-02	1.2789E+00	2.2598E+04	2.0259E+02
6.2200E+01	1.1550E-02	1.2677E+00	2.2400E+04	1.9933E+02
6.3200E+01	1.1046E-02	1.2124E+00	2.1423E+04	1.9618E+02
6.4200E+01	1.1145E-02	1.2233E+00	2.1615E+04	1.9312E+02
6.5200E+01	1.0742E-02	1.1790E+00	2.0833E+04	1.9016E+02
6.6200E+01	1.0740E-02	1.1789E+00	2.0831E+04	1.8729E+02
6.7200E+01	1.0538E-02	1.1567E+00	2.0438E+04	1.8450E+02
6.8200E+01	1.0336E-02	1.1345E+00	2.0046E+04	1.8179E+02
6.9200E+01	1.0134E-02	1.1123E+00	1.9654E+04	1.7917E+02
7.0200E+01	9.9318E-03	1.0901E+00	1.9263E+04	1.7662E+02
7.1200E+01	9.7298E-03	1.0680E+00	1.8871E+04	1.7414E+02
7.2200E+01	9.5279E-03	1.0458E+00	1.8479E+04	1.7172E+02
7.3200E+01	9.4263E-03	1.0346E+00	1.8282E+04	1.6938E+02
7.4200E+01	9.1242E-03	1.0015E+00	1.7696E+04	1.6709E+02
7.5200E+01	9.1229E-03	1.0013E+00	1.7694E+04	1.6487E+02
7.6200E+01	8.9212E-03	9.7920E-01	1.7303E+04	1.6271E+02

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
7.7200E+01	8.8197E-03	9.6806E-01	1.7106E+04	1.6060E+02
7.8200E+01	8.6181E-03	9.4593E-01	1.6715E+04	1.5855E+02
7.9200E+01	8.4165E-03	9.2381E-01	1.6324E+04	1.5655E+02
8.0200E+01	8.2150E-03	9.0169E-01	1.5933E+04	1.5459E+02
8.1200E+01	8.2139E-03	9.0156E-01	1.5931E+04	1.5269E+02
8.2200E+01	8.1126E-03	8.9045E-01	1.5734E+04	1.5083E+02
8.3200E+01	7.9112E-03	8.6834E-01	1.5344E+04	1.4902E+02
8.4200E+01	7.7099E-03	8.4624E-01	1.4953E+04	1.4725E+02
8.5200E+01	7.7088E-03	8.4613E-01	1.4951E+04	1.4552E+02
8.6200E+01	7.6076E-03	8.3502E-01	1.4755E+04	1.4383E+02
8.7200E+01	7.5065E-03	8.2392E-01	1.4559E+04	1.4218E+02
8.8200E+01	7.3053E-03	8.0184E-01	1.4169E+04	1.4057E+02
8.9200E+01	7.4044E-03	8.1271E-01	1.4361E+04	1.3900E+02
9.0200E+01	7.1032E-03	7.7966E-01	1.3777E+04	1.3745E+02
9.2200E+01	6.9012E-03	7.5749E-01	1.3385E+04	1.3447E+02
9.4200E+01	6.6994E-03	7.3533E-01	1.2993E+04	1.3162E+02
9.6200E+01	6.4976E-03	7.1318E-01	1.2602E+04	1.2888E+02
9.8200E+01	6.2959E-03	6.9105E-01	1.2211E+04	1.2626E+02
1.0020E+02	6.1943E-03	6.7989E-01	1.2014E+04	1.2374E+02
1.0220E+02	5.9928E-03	6.5778E-01	1.1623E+04	1.2132E+02
1.0420E+02	5.7915E-03	6.3568E-01	1.1232E+04	1.1899E+02
1.0620E+02	5.6900E-03	6.2454E-01	1.1036E+04	1.1675E+02
1.0820E+02	5.5887E-03	6.1342E-01	1.0839E+04	1.1459E+02
1.1020E+02	5.3876E-03	5.9135E-01	1.0449E+04	1.1251E+02
1.1220E+02	5.2864E-03	5.8024E-01	1.0253E+04	1.1050E+02
1.1420E+02	5.1852E-03	5.6913E-01	1.0057E+04	1.0857E+02
1.1620E+02	4.9844E-03	5.4709E-01	9.6672E+03	1.0670E+02
1.1820E+02	4.8833E-03	5.3600E-01	9.4712E+03	1.0489E+02
1.2020E+02	4.7824E-03	5.2492E-01	9.2753E+03	1.0315E+02
1.2220E+02	4.6814E-03	5.1384E-01	9.0796E+03	1.0146E+02
1.2420E+02	4.5806E-03	5.0277E-01	8.8840E+03	9.9826E+01
1.2620E+02	4.4797E-03	4.9170E-01	8.6884E+03	9.8244E+01
1.2820E+02	4.3790E-03	4.8064E-01	8.4930E+03	9.6712E+01
1.3020E+02	4.2783E-03	4.6959E-01	8.2977E+03	9.5226E+01
1.3220E+02	4.1776E-03	4.5854E-01	8.1025E+03	9.3785E+01
1.3420E+02	4.0770E-03	4.4750E-01	7.9074E+03	9.2388E+01

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
1.3620E+02	4.0759E-03	4.4737E-01	7.9052E+03	9.1031E+01
1.3820E+02	3.9754E-03	4.3634E-01	7.7102E+03	8.9714E+01
1.4020E+02	3.7756E-03	4.1441E-01	7.3227E+03	8.8434E+01
1.4220E+02	3.6752E-03	4.0339E-01	7.1280E+03	8.7190E+01
1.4420E+02	3.6742E-03	4.0328E-01	7.1260E+03	8.5981E+01
1.4620E+02	3.5739E-03	3.9227E-01	6.9315E+03	8.4805E+01
1.4820E+02	3.5729E-03	3.9216E-01	6.9296E+03	8.3660E+01
1.5020E+02	3.3735E-03	3.7027E-01	6.5428E+03	8.2546E+01
1.5220E+02	3.4717E-03	3.8106E-01	6.7334E+03	8.1461E+01
1.5420E+02	3.3716E-03	3.7007E-01	6.5392E+03	8.0405E+01
1.5620E+02	3.3707E-03	3.6997E-01	6.5374E+03	7.9375E+01
1.5670E+02	3.2713E-03	3.5906E-01	6.3446E+03	7.9122E+01
1.5720E+02	3.2711E-03	3.5904E-01	6.3442E+03	7.8870E+01
1.5770E+02	3.3700E-03	3.6989E-01	6.5360E+03	7.8620E+01
1.5820E+02	3.1715E-03	3.4811E-01	6.1511E+03	7.8372E+01
1.5870E+02	3.2704E-03	3.5896E-01	6.3429E+03	7.8125E+01
1.5920E+02	3.2702E-03	3.5894E-01	6.3424E+03	7.7880E+01
1.5970E+02	3.2699E-03	3.5891E-01	6.3420E+03	7.7636E+01
1.6020E+02	3.2697E-03	3.5889E-01	6.3416E+03	7.7393E+01
1.6070E+02	3.2695E-03	3.5886E-01	6.3411E+03	7.7153E+01
1.6120E+02	3.2692E-03	3.5884E-01	6.3407E+03	7.6913E+01
1.6170E+02	3.1700E-03	3.4794E-01	6.1481E+03	7.6675E+01
1.6220E+02	3.2688E-03	3.5879E-01	6.3398E+03	7.6439E+01
1.6270E+02	3.1695E-03	3.4789E-01	6.1473E+03	7.6204E+01
1.6320E+02	3.1693E-03	3.4787E-01	6.1468E+03	7.5971E+01
1.6350E+02	3.1692E-03	3.4785E-01	6.1466E+03	7.5831E+01
1.6388E+02	4.5131E-03	4.9537E-01	8.7532E+03	7.5655E+01
1.6408E+02	4.8591E-03	5.3334E-01	9.4242E+03	7.5563E+01
1.6420E+02	5.8668E-03	6.4395E-01	1.1379E+04	7.5508E+01
1.6428E+02	8.7675E-03	9.6233E-01	1.7004E+04	7.5471E+01
1.6431E+02	9.9521E-03	1.0924E+00	1.9302E+04	7.5457E+01
1.6439E+02	1.1883E-02	1.3043E+00	2.3047E+04	7.5421E+01
1.6452E+02	1.3413E-02	1.4722E+00	2.6014E+04	7.5361E+01
1.6470E+02	1.5418E-02	1.6923E+00	2.9903E+04	7.5279E+01
1.6490E+02	1.7396E-02	1.9094E+00	3.3740E+04	7.5187E+01
1.6513E+02	1.9561E-02	2.1471E+00	3.7939E+04	7.5083E+01

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
1.6531E+02	2.0662E-02	2.2679E+00	4.0074E+04	7.5001E+01
1.6549E+02	2.1166E-02	2.3233E+00	4.1052E+04	7.4919E+01
1.6561E+02	2.1224E-02	2.3295E+00	4.1163E+04	7.4865E+01
1.6574E+02	2.0981E-02	2.3029E+00	4.0693E+04	7.4806E+01
1.6589E+02	2.0404E-02	2.2396E+00	3.9574E+04	7.4739E+01
1.6602E+02	1.9537E-02	2.1444E+00	3.7891E+04	7.4680E+01
1.6615E+02	1.8214E-02	1.9992E+00	3.5326E+04	7.4622E+01
1.6629E+02	1.6582E-02	1.8201E+00	3.2161E+04	7.4559E+01
1.6640E+02	1.5370E-02	1.6870E+00	2.9810E+04	7.4510E+01
1.6651E+02	1.4364E-02	1.5766E+00	2.7859E+04	7.4461E+01
1.6664E+02	1.3600E-02	1.4927E+00	2.6377E+04	7.4402E+01
1.6675E+02	1.2574E-02	1.3802E+00	2.4388E+04	7.4353E+01
1.6691E+02	1.0673E-02	1.1714E+00	2.0699E+04	7.4282E+01
1.6703E+02	9.5447E-03	1.0476E+00	1.8512E+04	7.4229E+01
1.6717E+02	8.9861E-03	9.8633E-01	1.7429E+04	7.4167E+01
1.6728E+02	9.0145E-03	9.8945E-01	1.7484E+04	7.4118E+01
1.6738E+02	9.4903E-03	1.0417E+00	1.8406E+04	7.4073E+01
1.6748E+02	1.1683E-02	1.2823E+00	2.2658E+04	7.4029E+01
1.6757E+02	1.4425E-02	1.5833E+00	2.7976E+04	7.3989E+01
1.6764E+02	1.5852E-02	1.7399E+00	3.0745E+04	7.3959E+01
1.6770E+02	1.7139E-02	1.8812E+00	3.3242E+04	7.3932E+01
1.6774E+02	1.9069E-02	2.0931E+00	3.6985E+04	7.3915E+01
1.6781E+02	2.4162E-02	2.6520E+00	4.6861E+04	7.3884E+01
1.6784E+02	2.4665E-02	2.7073E+00	4.7838E+04	7.3870E+01
1.6788E+02	2.4004E-02	2.6347E+00	4.6555E+04	7.3853E+01
1.6794E+02	2.1132E-02	2.3195E+00	4.0985E+04	7.3826E+01
1.6808E+02	1.7728E-02	1.9459E+00	3.4384E+04	7.3765E+01
1.6815E+02	1.6749E-02	1.8384E+00	3.2485E+04	7.3734E+01
1.6820E+02	1.3849E-02	1.5201E+00	2.6861E+04	7.3712E+01
1.6826E+02	1.1024E-02	1.2100E+00	2.1380E+04	7.3686E+01
1.6830E+02	1.0707E-02	1.1752E+00	2.0766E+04	7.3669E+01
1.6838E+02	1.2106E-02	1.3288E+00	2.3480E+04	7.3634E+01
1.6846E+02	1.7283E-02	1.8970E+00	3.3520E+04	7.3599E+01
1.6850E+02	2.4585E-02	2.6984E+00	4.7682E+04	7.3581E+01
1.6856E+02	3.1020E-02	3.4048E+00	6.0162E+04	7.3555E+01
1.6859E+02	3.1785E-02	3.4887E+00	6.1646E+04	7.3542E+01

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
1.6863E+02	3.1150E-02	3.4191E+00	6.0416E+04	7.3524E+01
1.6873E+02	2.7066E-02	2.9708E+00	5.2495E+04	7.3481E+01
1.6883E+02	2.4241E-02	2.6607E+00	4.7015E+04	7.3437E+01
1.6892E+02	2.5770E-02	2.8286E+00	4.9982E+04	7.3398E+01
1.6900E+02	2.2479E-02	2.4674E+00	4.3599E+04	7.3363E+01
1.6907E+02	1.9626E-02	2.1541E+00	3.8064E+04	7.3333E+01
1.6915E+02	2.0820E-02	2.2852E+00	4.0380E+04	7.3298E+01
1.6926E+02	2.4961E-02	2.7398E+00	4.8412E+04	7.3251E+01
1.6931E+02	2.6015E-02	2.8555E+00	5.0457E+04	7.3229E+01
1.6937E+02	2.6855E-02	2.9476E+00	5.2085E+04	7.3203E+01
1.6944E+02	3.0101E-02	3.3039E+00	5.8380E+04	7.3173E+01
1.6949E+02	3.0315E-02	3.3274E+00	5.8795E+04	7.3151E+01
1.6952E+02	2.9970E-02	3.2895E+00	5.8126E+04	7.3138E+01
1.6960E+02	2.6539E-02	2.9130E+00	5.1472E+04	7.3104E+01
1.6964E+02	2.6250E-02	2.8812E+00	5.0911E+04	7.3087E+01
1.6969E+02	2.6968E-02	2.9601E+00	5.2305E+04	7.3065E+01
1.6974E+02	2.9626E-02	3.2518E+00	5.7459E+04	7.3044E+01
1.6979E+02	3.2209E-02	3.5353E+00	6.2470E+04	7.3022E+01
1.6984E+02	3.3347E-02	3.6602E+00	6.4676E+04	7.3001E+01
1.6989E+02	3.3665E-02	3.6951E+00	6.5292E+04	7.2979E+01
1.6994E+02	3.3292E-02	3.6541E+00	6.4569E+04	7.2958E+01
1.6997E+02	3.1874E-02	3.4986E+00	6.1820E+04	7.2945E+01
1.7005E+02	2.7707E-02	3.0411E+00	5.3737E+04	7.2910E+01
1.7009E+02	2.6728E-02	2.9337E+00	5.1838E+04	7.2893E+01
1.7016E+02	2.5860E-02	2.8385E+00	5.0156E+04	7.2863E+01
1.7027E+02	2.5301E-02	2.7771E+00	4.9072E+04	7.2816E+01
1.7031E+02	2.5301E-02	2.7771E+00	4.9072E+04	7.2799E+01
1.7039E+02	2.6048E-02	2.8591E+00	5.0520E+04	7.2765E+01
1.7048E+02	2.7419E-02	3.0096E+00	5.3179E+04	7.2727E+01
1.7057E+02	2.7942E-02	3.0669E+00	5.4193E+04	7.2688E+01
1.7061E+02	2.8502E-02	3.1284E+00	5.5279E+04	7.2671E+01
1.7069E+02	3.1719E-02	3.4815E+00	6.1519E+04	7.2637E+01
1.7073E+02	3.2009E-02	3.5133E+00	6.2081E+04	7.2620E+01
1.7078E+02	3.1002E-02	3.4028E+00	6.0127E+04	7.2599E+01
1.7082E+02	2.8736E-02	3.1541E+00	5.5733E+04	7.2582E+01
1.7088E+02	2.6703E-02	2.9310E+00	5.1791E+04	7.2556E+01

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} (cm^2 g^{-1})	λ (Å)
1.7093E+02	2.6442E-02	2.9023E+00	5.1284E+04	7.2535E+01
1.7096E+02	2.6918E-02	2.9546E+00	5.2208E+04	7.2522E+01
1.7099E+02	2.9371E-02	3.2238E+00	5.6965E+04	7.2510E+01
1.7101E+02	3.1115E-02	3.4152E+00	6.0347E+04	7.2501E+01
1.7107E+02	3.2374E-02	3.5534E+00	6.2790E+04	7.2476E+01
1.7111E+02	3.1880E-02	3.4992E+00	6.1831E+04	7.2459E+01
1.7116E+02	3.1433E-02	3.4501E+00	6.0963E+04	7.2438E+01
1.7120E+02	3.1275E-02	3.4327E+00	6.0657E+04	7.2421E+01
1.7170E+02	3.1388E-02	3.4452E+00	6.0877E+04	7.2210E+01
1.7220E+02	3.2075E-02	3.5206E+00	6.2210E+04	7.2000E+01
1.7270E+02	3.2071E-02	3.5201E+00	6.2201E+04	7.1792E+01
1.7320E+02	3.2234E-02	3.5380E+00	6.2518E+04	7.1584E+01
1.7370E+02	3.3068E-02	3.6296E+00	6.4136E+04	7.1378E+01
1.7420E+02	3.2885E-02	3.6095E+00	6.3780E+04	7.1173E+01
1.7470E+02	3.3869E-02	3.7175E+00	6.5689E+04	7.0970E+01
1.7520E+02	3.4177E-02	3.7512E+00	6.6285E+04	7.0767E+01
1.7570E+02	3.4643E-02	3.8025E+00	6.7191E+04	7.0566E+01
1.7620E+02	3.5595E-02	3.9069E+00	6.9036E+04	7.0366E+01
1.7670E+02	3.6207E-02	3.9741E+00	7.0224E+04	7.0166E+01
1.7720E+02	3.6810E-02	4.0403E+00	7.1393E+04	6.9969E+01
1.7770E+02	3.7403E-02	4.1054E+00	7.2544E+04	6.9772E+01
1.7820E+02	3.7667E-02	4.1344E+00	7.3055E+04	6.9576E+01
1.7870E+02	3.7447E-02	4.1102E+00	7.2628E+04	6.9381E+01
1.7920E+02	3.7702E-02	4.1382E+00	7.3123E+04	6.9188E+01
1.7970E+02	3.7637E-02	4.1310E+00	7.2996E+04	6.8995E+01
1.8020E+02	3.8352E-02	4.2095E+00	7.4383E+04	6.8804E+01
1.8070E+02	3.8278E-02	4.2014E+00	7.4240E+04	6.8613E+01
1.8120E+02	3.8202E-02	4.1931E+00	7.4093E+04	6.8424E+01
1.8170E+02	3.8893E-02	4.2690E+00	7.5433E+04	6.8236E+01
1.8220E+02	3.8503E-02	4.2262E+00	7.4677E+04	6.8048E+01
1.8270E+02	3.8267E-02	4.2003E+00	7.4219E+04	6.7862E+01
1.8320E+02	3.8031E-02	4.1744E+00	7.3761E+04	6.7677E+01
1.8370E+02	3.7945E-02	4.1649E+00	7.3594E+04	6.7493E+01
1.8420E+02	3.7708E-02	4.1389E+00	7.3135E+04	6.7310E+01
1.8470E+02	3.7916E-02	4.1616E+00	7.3537E+04	6.7127E+01
1.8520E+02	3.7970E-02	4.1676E+00	7.3643E+04	6.6946E+01

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
1.8570E+02	3.7290E-02	4.0930E+00	7.2323E+04	6.6766E+01
1.8620E+02	3.7196E-02	4.0827E+00	7.2142E+04	6.6587E+01
1.8670E+02	3.7101E-02	4.0722E+00	7.1957E+04	6.6408E+01
1.8720E+02	3.7003E-02	4.0615E+00	7.1768E+04	6.6231E+01
1.8770E+02	3.7047E-02	4.0663E+00	7.1852E+04	6.6054E+01
1.8820E+02	3.6803E-02	4.0395E+00	7.1379E+04	6.5879E+01
1.8870E+02	3.6841E-02	4.0437E+00	7.1452E+04	6.5704E+01
1.8920E+02	3.6595E-02	4.0167E+00	7.0976E+04	6.5531E+01
1.8970E+02	3.6350E-02	3.9898E+00	7.0500E+04	6.5358E+01
1.9020E+02	3.6242E-02	3.9780E+00	7.0292E+04	6.5186E+01
1.9120E+02	3.5750E-02	3.9239E+00	6.9336E+04	6.4845E+01
1.9220E+02	3.5525E-02	3.8993E+00	6.8900E+04	6.4508E+01
1.9320E+02	3.4368E-02	3.7722E+00	6.6656E+04	6.4174E+01
1.9420E+02	3.4532E-02	3.7903E+00	6.6975E+04	6.3844E+01
1.9520E+02	3.4036E-02	3.7358E+00	6.6012E+04	6.3516E+01
1.9620E+02	3.2653E-02	3.5840E+00	6.3331E+04	6.3193E+01
1.9720E+02	3.2793E-02	3.5994E+00	6.3602E+04	6.2872E+01
1.9820E+02	3.2301E-02	3.5453E+00	6.2647E+04	6.2555E+01
1.9920E+02	3.1687E-02	3.4780E+00	6.1457E+04	6.2241E+01
2.0020E+02	3.1077E-02	3.4110E+00	6.0274E+04	6.1930E+01
2.0120E+02	3.0354E-02	3.3316E+00	5.8871E+04	6.1622E+01
2.0220E+02	2.9753E-02	3.2657E+00	5.7706E+04	6.1318E+01
2.0320E+02	2.9043E-02	3.1878E+00	5.6328E+04	6.1016E+01
2.0420E+02	2.8452E-02	3.1229E+00	5.5182E+04	6.0717E+01
2.2500E+02	2.8484E-02	3.1265E+00	5.5245E+04	5.5104E+01
2.5000E+02	2.6182E-02	2.8738E+00	5.0780E+04	4.9594E+01
2.7500E+02	2.3171E-02	2.5433E+00	4.4941E+04	4.5085E+01
3.0000E+02	2.0203E-02	2.2174E+00	3.9183E+04	4.1328E+01
3.5000E+02	1.5211E-02	1.6696E+00	2.9502E+04	3.5424E+01
4.0000E+02	1.1554E-02	1.2682E+00	2.2409E+04	3.0996E+01
4.5000E+02	8.9264E-03	9.7977E-01	1.7313E+04	2.7552E+01
5.0000E+02	7.0223E-03	7.7077E-01	1.3620E+04	2.4797E+01
6.0000E+02	4.5691E-03	5.0150E-01	8.8617E+03	2.0664E+01
7.0000E+02	3.1455E-03	3.4525E-01	6.1006E+03	1.7712E+01
8.0000E+02	2.2655E-03	2.4866E-01	4.3939E+03	1.5498E+01
9.0000E+02	1.6921E-03	1.8573E-01	3.2818E+03	1.3776E+01

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
1.0000E+03	1.2304E-03	1.3505E-01	2.3863E+03	1.2398E+01
1.2500E+03	6.7479E-04	7.4066E-02	1.3087E+03	9.9187E+00
1.5000E+03	4.1222E-04	4.5246E-02	7.9950E+02	8.2656E+00
1.7500E+03	2.7189E-04	2.9843E-02	5.2734E+02	7.0848E+00
2.0000E+03	1.8986E-04	2.0839E-02	3.6823E+02	6.1992E+00
2.2500E+03	1.3853E-04	1.5205E-02	2.6867E+02	5.5104E+00
2.4700E+03	1.0806E-04	1.1861E-02	2.0958E+02	5.0196E+00
2.4708E+03	4.1261E-04	4.5288E-02	8.0025E+02	5.0180E+00
2.4715E+03	8.4348E-04	9.2581E-02	1.6359E+03	5.0166E+00
2.4721E+03	1.9974E-03	2.1923E-01	3.8738E+03	5.0153E+00
2.4727E+03	3.3264E-03	3.6511E-01	6.4516E+03	5.0141E+00
2.4735E+03	2.0375E-03	2.2364E-01	3.9518E+03	5.0125E+00
2.4741E+03	9.5298E-04	1.0460E-01	1.8483E+03	5.0113E+00
2.4747E+03	6.5725E-04	7.2141E-02	1.2747E+03	5.0101E+00
2.4753E+03	1.0480E-03	1.1503E-01	2.0325E+03	5.0089E+00
2.4758E+03	2.0777E-03	2.2805E-01	4.0297E+03	5.0078E+00
2.4761E+03	1.7308E-03	1.8997E-01	3.3569E+03	5.0072E+00
2.4765E+03	1.0041E-03	1.1021E-01	1.9475E+03	5.0064E+00
2.4769E+03	1.2379E-03	1.3587E-01	2.4008E+03	5.0056E+00
2.4772E+03	1.3072E-03	1.4348E-01	2.5354E+03	5.0050E+00
2.4775E+03	1.2415E-03	1.3626E-01	2.4078E+03	5.0044E+00
2.4801E+03	1.1940E-03	1.3106E-01	2.3158E+03	4.9992E+00
2.4831E+03	1.1903E-03	1.3065E-01	2.3086E+03	4.9931E+00
2.4871E+03	1.1867E-03	1.3026E-01	2.3016E+03	4.9851E+00
2.4895E+03	1.1758E-03	1.2905E-01	2.2804E+03	4.9803E+00
2.4909E+03	1.1501E-03	1.2624E-01	2.2307E+03	4.9775E+00
2.4919E+03	1.1685E-03	1.2825E-01	2.2663E+03	4.9755E+00
2.4937E+03	1.1466E-03	1.2585E-01	2.2237E+03	4.9719E+00
2.4986E+03	1.1356E-03	1.2464E-01	2.2025E+03	4.9621E+00
2.5029E+03	1.1064E-03	1.2144E-01	2.1458E+03	4.9536E+00
2.5066E+03	1.0954E-03	1.2023E-01	2.1246E+03	4.9463E+00
2.5100E+03	1.0845E-03	1.1903E-01	2.1033E+03	4.9396E+00
2.7500E+03	8.1592E-04	8.9556E-02	1.5825E+03	4.5085E+00
3.0000E+03	6.5532E-04	7.1929E-02	1.2710E+03	4.1328E+00
3.5000E+03	4.3867E-04	4.8149E-02	8.5081E+02	3.5424E+00
4.0000E+03	3.0677E-04	3.3671E-02	5.9497E+02	3.0996E+00

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} ($\mathrm{cm}^2\ \mathrm{g}^{-1}$)	λ (Å)
4.5000E+03	2.2251E-04	2.4423E-02	4.3156E+02	2.7552E+00
5.0000E+03	1.6640E-04	1.8264E-02	3.2272E+02	2.4797E+00
6.0000E+03	1.0008E-04	1.0985E-02	1.9410E+02	2.0664E+00
7.0000E+03	6.4863E-05	7.1194E-03	1.2580E+02	1.7712E+00
8.0000E+03	4.4471E-05	4.8812E-03	8.6251E+01	1.5498E+00
9.0000E+03	3.1851E-05	3.4960E-03	6.1776E+01	1.3776E+00
1.0000E+04	2.3518E-05	2.5813E-03	4.5612E+01	1.2398E+00
1.2500E+04	1.2104E-05	1.3286E-03	2.3476E+01	9.9187E-01
1.5000E+04	7.0009E-06	7.6843E-04	1.3578E+01	8.2656E-01
1.7500E+04	4.4079E-06	4.8381E-04	8.5491E+00	7.0848E-01
2.0000E+04	2.9529E-06	3.2411E-04	5.7271E+00	6.1992E-01
2.2500E+04	2.0739E-06	2.2763E-04	4.0223E+00	5.5104E-01
2.5000E+04	1.5124E-06	1.6601E-04	2.9334E+00	4.9594E-01
2.7500E+04	1.1322E-06	1.2427E-04	2.1959E+00	4.5085E-01
3.0000E+04	8.6250E-07	9.4669E-05	1.6728E+00	4.1328E-01
3.5000E+04	5.3326E-07	5.8531E-05	1.0343E+00	3.5424E-01
4.0000E+04	3.5153E-07	3.8584E-05	6.8179E-01	3.0996E-01
4.5000E+04	2.4341E-07	2.6717E-05	4.7209E-01	2.7552E-01
5.0000E+04	1.7522E-07	1.9232E-05	3.3983E-01	2.4797E-01
6.0000E+04	9.8578E-08	1.0820E-05	1.9119E-01	2.0664E-01
7.0000E+04	6.0487E-08	6.6392E-06	1.1731E-01	1.7712E-01
8.0000E+04	3.9615E-08	4.3481E-06	7.6832E-02	1.5498E-01
9.0000E+04	2.7263E-08	2.9924E-06	5.2876E-02	1.3776E-01
1.0000E+05	1.9507E-08	2.1411E-06	3.7833E-02	1.2398E-01

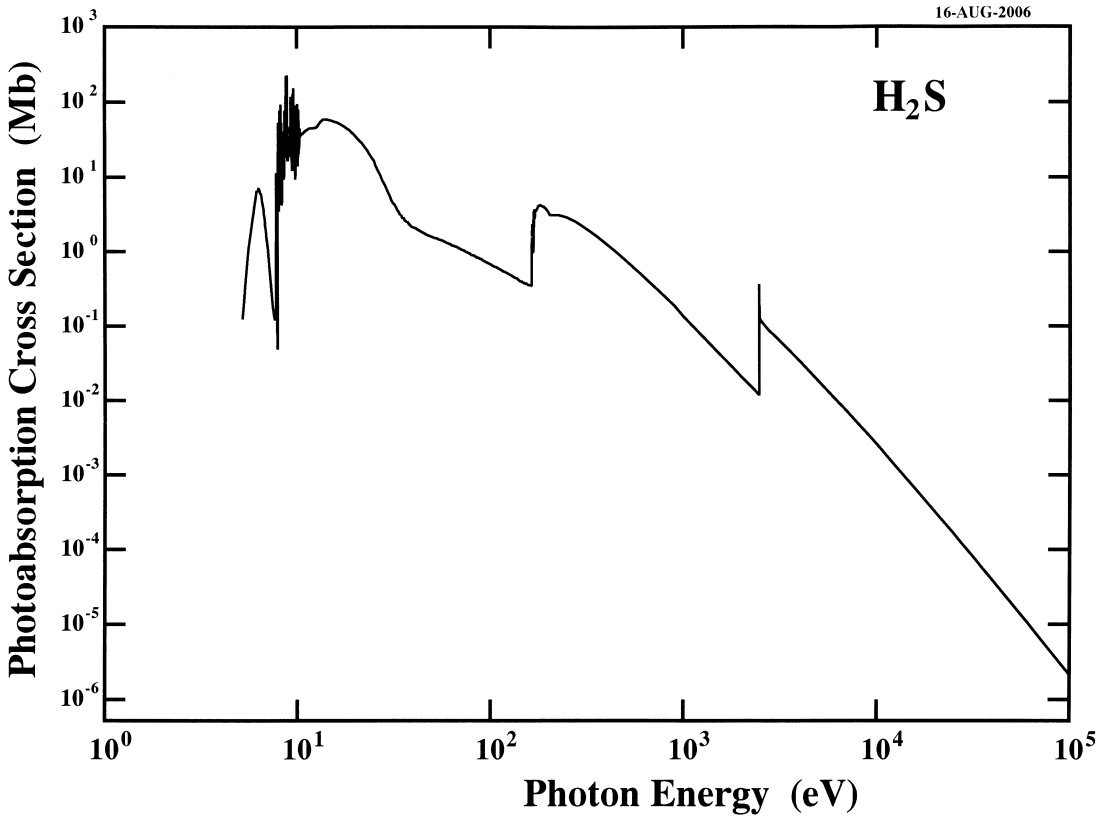
When photon energy, E, is higher than 10^5 eV, the photoabsorption cross section of each atom, σ_{a}, in Mb is given by

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

Here E is photon energy in eV and χ is given by

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

where $E_{\mathrm{K}} \;=\; 13.6$ and 2478.5 eV for hydrogen and sulfur atoms, respectively.


16-AUG-2006
H2S
Photoabsorption Cross Section (Mb)
Photon Energy (eV)
10 3
10 2
10 1
10 0
10-1
10-2
10-3
10-4
10-5
10-6
100
101
102
103
104
105