

# Methanol (CH<sub>3</sub>OH)

Z = 18

Molecular Mass :  $M_A = 32.04186$

$$\sigma_a(\text{Mb}) = 109.76097 \frac{df}{dE} (\text{eV}^{-1})$$

$$\mu_m = \sigma_a \cdot N_A \cdot M_A^{-1}$$

Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ .

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
6.2600E+00	8.9857E-04	9.8628E-02	1.8537E+03	1.9806E+03
6.3026E+00	1.0493E-03	1.1517E-01	2.1646E+03	1.9672E+03
6.3341E+00	1.2446E-03	1.3660E-01	2.5674E+03	1.9574E+03
6.3598E+00	1.4621E-03	1.6048E-01	3.0161E+03	1.9495E+03
6.3903E+00	1.8328E-03	2.0117E-01	3.7809E+03	1.9402E+03
6.4151E+00	2.2914E-03	2.5151E-01	4.7270E+03	1.9327E+03
6.4451E+00	2.8593E-03	3.1384E-01	5.8985E+03	1.9237E+03
6.4713E+00	3.4055E-03	3.7379E-01	7.0253E+03	1.9159E+03
6.4991E+00	3.8860E-03	4.2653E-01	8.0165E+03	1.9077E+03
6.5289E+00	4.3663E-03	4.7925E-01	9.0073E+03	1.8990E+03
6.5631E+00	4.7806E-03	5.2472E-01	9.8620E+03	1.8891E+03
6.5974E+00	5.1293E-03	5.6299E-01	1.0581E+04	1.8793E+03
6.6344E+00	5.3682E-03	5.8922E-01	1.1074E+04	1.8688E+03
6.6683E+00	5.5635E-03	6.1066E-01	1.1477E+04	1.8593E+03
6.7080E+00	5.6708E-03	6.2244E-01	1.1698E+04	1.8483E+03
6.7482E+00	5.7344E-03	6.2941E-01	1.1830E+04	1.8373E+03
6.7784E+00	5.7547E-03	6.3164E-01	1.1871E+04	1.8291E+03
6.8345E+00	5.6860E-03	6.2410E-01	1.1730E+04	1.8141E+03
6.8918E+00	5.5077E-03	6.0453E-01	1.1362E+04	1.7990E+03
6.9455E+00	5.3296E-03	5.8499E-01	1.0995E+04	1.7851E+03
7.0012E+00	5.1295E-03	5.6302E-01	1.0582E+04	1.7709E+03
7.0530E+00	4.9298E-03	5.4110E-01	1.0170E+04	1.7579E+03
7.1092E+00	4.6641E-03	5.1194E-01	9.6216E+03	1.7440E+03
7.1688E+00	4.3983E-03	4.8276E-01	9.0733E+03	1.7295E+03
7.2340E+00	4.1103E-03	4.5115E-01	8.4793E+03	1.7139E+03
7.2945E+00	3.8226E-03	4.1958E-01	7.8858E+03	1.6997E+03
7.3848E+00	3.3583E-03	3.6861E-01	6.9279E+03	1.6789E+03
7.4465E+00	3.0268E-03	3.3223E-01	6.2441E+03	1.6650E+03

Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ . (Continued)

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
7.5160E+00	2.6733E-03	2.9342E-01	5.5147E+03	1.6496E+03
7.5306E+00	7.5171E-04	8.2509E-02	1.5507E+03	1.6464E+03
7.5453E+00	7.2498E-04	7.9575E-02	1.4956E+03	1.6432E+03
7.5582E+00	1.0880E-03	1.1942E-01	2.2445E+03	1.6404E+03
7.5739E+00	2.7976E-03	3.0707E-01	5.7712E+03	1.6370E+03
7.5920E+00	6.6280E-03	7.2749E-01	1.3673E+04	1.6331E+03
7.6129E+00	1.1998E-02	1.3169E+00	2.4751E+04	1.6286E+03
7.6354E+00	1.8911E-02	2.0757E+00	3.9012E+04	1.6238E+03
7.6538E+00	2.6796E-02	2.9412E+00	5.5279E+04	1.6199E+03
7.6600E+00	3.4704E-02	3.8092E+00	7.1592E+04	1.6186E+03
7.6675E+00	4.1644E-02	4.5709E+00	8.5908E+04	1.6170E+03
7.6713E+00	5.3612E-02	5.8845E+00	1.1060E+05	1.6162E+03
7.6756E+00	6.0364E-02	6.6256E+00	1.2453E+05	1.6153E+03
7.6813E+00	7.5611E-02	8.2992E+00	1.5598E+05	1.6141E+03
7.6870E+00	8.6804E-02	9.5276E+00	1.7907E+05	1.6129E+03
7.6913E+00	9.3745E-02	1.0290E+01	1.9339E+05	1.6120E+03
7.6975E+00	9.7601E-02	1.0713E+01	2.0134E+05	1.6107E+03
7.7042E+00	9.1211E-02	1.0011E+01	1.8816E+05	1.6093E+03
7.7081E+00	8.6186E-02	9.4599E+00	1.7780E+05	1.6085E+03
7.7129E+00	7.5363E-02	8.2719E+00	1.5547E+05	1.6075E+03
7.7196E+00	6.2604E-02	6.8715E+00	1.2915E+05	1.6061E+03
7.7292E+00	5.5441E-02	6.0853E+00	1.1437E+05	1.6041E+03
7.7355E+00	5.5624E-02	6.1053E+00	1.1475E+05	1.6028E+03
7.7427E+00	5.9088E-02	6.4855E+00	1.2189E+05	1.6013E+03
7.7505E+00	6.5448E-02	7.1837E+00	1.3501E+05	1.5997E+03
7.7592E+00	7.4704E-02	8.1995E+00	1.5411E+05	1.5979E+03
7.7709E+00	8.2795E-02	9.0876E+00	1.7080E+05	1.5955E+03
7.7806E+00	8.8959E-02	9.7642E+00	1.8351E+05	1.5935E+03
7.7889E+00	9.1840E-02	1.0080E+01	1.8946E+05	1.5918E+03
7.8027E+00	9.3554E-02	1.0269E+01	1.9299E+05	1.5890E+03
7.8086E+00	9.0455E-02	9.9285E+00	1.8660E+05	1.5878E+03
7.8312E+00	8.1340E-02	8.9279E+00	1.6780E+05	1.5832E+03
7.8615E+00	6.7190E-02	7.3749E+00	1.3861E+05	1.5771E+03
7.8685E+00	6.5826E-02	7.2251E+00	1.3579E+05	1.5757E+03
7.8785E+00	6.7355E-02	7.3929E+00	1.3895E+05	1.5737E+03
7.8905E+00	7.5060E-02	8.2387E+00	1.5484E+05	1.5713E+03

Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ . (Continued)

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
7.9001E+00	7.4658E-02	8.1945E+00	1.5401E+05	1.5694E+03
7.9167E+00	6.6904E-02	7.3435E+00	1.3802E+05	1.5661E+03
7.9274E+00	6.0128E-02	6.5997E+00	1.2404E+05	1.5640E+03
7.9380E+00	5.5475E-02	6.0890E+00	1.1444E+05	1.5619E+03
7.9528E+00	5.3326E-02	5.8531E+00	1.1001E+05	1.5590E+03
7.9625E+00	4.8675E-02	5.3426E+00	1.0041E+05	1.5571E+03
7.9810E+00	4.7293E-02	5.1909E+00	9.7561E+04	1.5535E+03
8.0098E+00	4.8985E-02	5.3766E+00	1.0105E+05	1.5479E+03
8.0295E+00	4.7793E-02	5.2458E+00	9.8593E+04	1.5441E+03
8.0483E+00	4.7377E-02	5.2001E+00	9.7734E+04	1.5405E+03
8.0961E+00	4.1314E-02	4.5347E+00	8.5227E+04	1.5314E+03
8.1200E+00	4.0697E-02	4.4669E+00	8.3954E+04	1.5269E+03
8.1424E+00	3.7185E-02	4.0815E+00	7.6710E+04	1.5227E+03
8.1569E+00	3.7162E-02	4.0789E+00	7.6661E+04	1.5200E+03
8.1687E+00	3.8496E-02	4.2254E+00	7.9414E+04	1.5178E+03
8.1859E+00	3.9049E-02	4.2860E+00	8.0554E+04	1.5146E+03
8.1984E+00	4.1347E-02	4.5383E+00	8.5295E+04	1.5123E+03
8.2185E+00	4.6723E-02	5.1284E+00	9.6386E+04	1.5086E+03
8.2343E+00	5.4039E-02	5.9314E+00	1.1148E+05	1.5057E+03
8.2563E+00	7.0422E-02	7.7296E+00	1.4527E+05	1.5017E+03
8.2651E+00	8.0065E-02	8.7880E+00	1.6517E+05	1.5001E+03
8.2822E+00	9.6070E-02	1.0545E+01	1.9818E+05	1.4970E+03
8.2949E+00	1.0860E-01	1.1920E+01	2.2404E+05	1.4947E+03
8.3005E+00	1.1130E-01	1.2217E+01	2.2961E+05	1.4937E+03
8.3099E+00	1.0859E-01	1.1918E+01	2.2400E+05	1.4920E+03
8.3256E+00	8.9437E-02	9.8167E+00	1.8450E+05	1.4892E+03
8.3345E+00	7.8802E-02	8.6494E+00	1.6256E+05	1.4876E+03
8.3491E+00	6.6033E-02	7.2478E+00	1.3622E+05	1.4850E+03
8.3598E+00	6.4086E-02	7.0341E+00	1.3220E+05	1.4831E+03
8.3671E+00	6.5813E-02	7.2237E+00	1.3577E+05	1.4818E+03
8.3790E+00	7.8157E-02	8.5785E+00	1.6123E+05	1.4797E+03
8.3892E+00	9.3207E-02	1.0231E+01	1.9228E+05	1.4779E+03
8.3989E+00	1.0671E-01	1.1712E+01	2.2013E+05	1.4762E+03
8.4086E+00	1.1404E-01	1.2517E+01	2.3525E+05	1.4745E+03
8.4160E+00	1.1615E-01	1.2749E+01	2.3961E+05	1.4732E+03
8.4343E+00	1.0975E-01	1.2047E+01	2.2641E+05	1.4700E+03

Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ . (Continued)

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
8.4492E+00	9.8522E-02	1.0814E+01	2.0324E+05	1.4674E+03
8.4642E+00	8.1894E-02	8.9888E+00	1.6894E+05	1.4648E+03
8.4787E+00	7.2989E-02	8.0113E+00	1.5057E+05	1.4623E+03
8.4926E+00	6.4084E-02	7.0339E+00	1.3220E+05	1.4599E+03
8.5002E+00	6.2529E-02	6.8632E+00	1.2899E+05	1.4586E+03
8.5101E+00	6.3480E-02	6.9677E+00	1.3095E+05	1.4569E+03
8.5277E+00	6.5580E-02	7.1981E+00	1.3529E+05	1.4539E+03
8.5377E+00	6.5952E-02	7.2389E+00	1.3605E+05	1.4522E+03
8.5489E+00	6.4777E-02	7.1099E+00	1.3363E+05	1.4503E+03
8.5713E+00	5.7792E-02	6.3433E+00	1.1922E+05	1.4465E+03
8.5963E+00	4.9066E-02	5.3855E+00	1.0122E+05	1.4423E+03
8.6184E+00	4.2081E-02	4.6189E+00	8.6810E+04	1.4386E+03
8.6310E+00	3.9554E-02	4.3414E+00	8.1596E+04	1.4365E+03
8.6539E+00	3.8170E-02	4.1896E+00	7.8741E+04	1.4327E+03
8.6891E+00	3.7928E-02	4.1631E+00	7.8243E+04	1.4269E+03
8.7074E+00	3.7324E-02	4.0967E+00	7.6996E+04	1.4239E+03
8.7202E+00	3.5762E-02	3.9252E+00	7.3773E+04	1.4218E+03
8.7436E+00	3.0901E-02	3.3917E+00	6.3746E+04	1.4180E+03
8.7628E+00	2.7784E-02	3.0496E+00	5.7317E+04	1.4149E+03
8.7851E+00	2.6981E-02	2.9615E+00	5.5660E+04	1.4113E+03
8.8051E+00	2.7535E-02	3.0222E+00	5.6802E+04	1.4081E+03
8.8472E+00	3.0569E-02	3.3553E+00	6.3062E+04	1.4014E+03
8.8617E+00	3.1129E-02	3.4167E+00	6.4216E+04	1.3991E+03
8.8973E+00	3.1662E-02	3.4753E+00	6.5316E+04	1.3935E+03
8.9178E+00	3.2793E-02	3.5994E+00	6.7650E+04	1.3903E+03
8.9313E+00	3.3742E-02	3.7035E+00	6.9606E+04	1.3882E+03
8.9590E+00	3.7762E-02	4.1447E+00	7.7899E+04	1.3839E+03
8.9714E+00	3.9290E-02	4.3125E+00	8.1052E+04	1.3820E+03
8.9844E+00	3.9854E-02	4.3744E+00	8.2214E+04	1.3800E+03
8.9967E+00	4.1962E-02	4.6058E+00	8.6564E+04	1.3781E+03
9.0466E+00	5.2907E-02	5.8071E+00	1.0914E+05	1.3705E+03
9.0566E+00	5.4826E-02	6.0178E+00	1.1310E+05	1.3690E+03
9.0705E+00	5.6161E-02	6.1642E+00	1.1585E+05	1.3669E+03
9.1018E+00	5.8439E-02	6.4143E+00	1.2055E+05	1.3622E+03
9.1232E+00	6.0923E-02	6.6869E+00	1.2568E+05	1.3590E+03
9.1609E+00	6.3966E-02	7.0210E+00	1.3196E+05	1.3534E+03

Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ . (Continued)

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
9.1752E+00	6.5300E-02	7.1674E+00	1.3471E+05	1.3513E+03
9.1867E+00	6.3741E-02	6.9963E+00	1.3149E+05	1.3496E+03
9.1915E+00	6.3349E-02	6.9533E+00	1.3068E+05	1.3489E+03
9.2381E+00	5.7778E-02	6.3417E+00	1.1919E+05	1.3421E+03
9.3263E+00	6.9334E-02	7.6102E+00	1.4303E+05	1.3294E+03
9.4163E+00	8.1681E-02	8.9653E+00	1.6850E+05	1.3167E+03
9.4963E+00	9.9588E-02	1.0931E+01	2.0544E+05	1.3056E+03
9.5146E+00	1.0426E-01	1.1444E+01	2.1509E+05	1.3031E+03
9.5328E+00	1.0658E-01	1.1698E+01	2.1987E+05	1.3006E+03
9.5755E+00	1.0724E-01	1.1770E+01	2.2122E+05	1.2948E+03
9.5911E+00	1.0877E-01	1.1938E+01	2.2438E+05	1.2927E+03
9.6022E+00	1.1150E-01	1.2239E+01	2.3002E+05	1.2912E+03
9.6366E+00	1.2679E-01	1.3917E+01	2.6156E+05	1.2866E+03
9.6553E+00	1.3226E-01	1.4517E+01	2.7284E+05	1.2841E+03
9.6946E+00	1.2267E-01	1.3464E+01	2.5306E+05	1.2789E+03
9.7113E+00	1.2105E-01	1.3286E+01	2.4971E+05	1.2767E+03
9.7304E+00	1.2138E-01	1.3323E+01	2.5040E+05	1.2742E+03
9.7549E+00	1.2683E-01	1.3922E+01	2.6165E+05	1.2710E+03
9.7687E+00	1.2956E-01	1.4221E+01	2.6727E+05	1.2692E+03
9.7864E+00	1.3030E-01	1.4302E+01	2.6880E+05	1.2669E+03
9.8283E+00	1.2781E-01	1.4029E+01	2.6366E+05	1.2615E+03
9.8541E+00	1.3089E-01	1.4367E+01	2.7002E+05	1.2582E+03
9.8659E+00	1.2929E-01	1.4191E+01	2.6671E+05	1.2567E+03
9.8808E+00	1.3200E-01	1.4489E+01	2.7231E+05	1.2548E+03
9.9164E+00	1.3190E-01	1.4478E+01	2.7211E+05	1.2503E+03
9.9530E+00	1.3575E-01	1.4900E+01	2.8004E+05	1.2457E+03
9.9899E+00	1.3565E-01	1.4889E+01	2.7983E+05	1.2411E+03
1.0012E+01	1.3755E-01	1.5098E+01	2.8376E+05	1.2384E+03
1.0048E+01	1.3430E-01	1.4741E+01	2.7705E+05	1.2339E+03
1.0123E+01	1.3331E-01	1.4632E+01	2.7500E+05	1.2248E+03
1.0137E+01	1.3209E-01	1.4498E+01	2.7248E+05	1.2231E+03
1.0155E+01	1.3165E-01	1.4450E+01	2.7158E+05	1.2209E+03
1.0199E+01	1.2679E-01	1.3917E+01	2.6156E+05	1.2157E+03
1.0236E+01	1.2157E-01	1.3343E+01	2.5078E+05	1.2112E+03
1.0254E+01	1.2073E-01	1.3251E+01	2.4905E+05	1.2091E+03
1.0274E+01	1.2541E-01	1.3765E+01	2.5872E+05	1.2068E+03

Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ . (Continued)

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
1.0281E+01	1.2816E-01	1.4067E+01	2.6438E+05	1.2060E+03
1.0293E+01	1.3010E-01	1.4280E+01	2.6838E+05	1.2045E+03
1.0330E+01	1.2724E-01	1.3966E+01	2.6248E+05	1.2002E+03
1.0357E+01	1.2401E-01	1.3611E+01	2.5582E+05	1.1971E+03
1.0384E+01	1.2354E-01	1.3560E+01	2.5486E+05	1.1940E+03
1.0421E+01	1.2740E-01	1.3984E+01	2.6282E+05	1.1898E+03
1.0465E+01	1.3044E-01	1.4318E+01	2.6910E+05	1.1848E+03
1.0518E+01	1.3032E-01	1.4304E+01	2.6883E+05	1.1788E+03
1.0542E+01	1.3183E-01	1.4470E+01	2.7195E+05	1.1761E+03
1.0583E+01	1.3766E-01	1.5109E+01	2.8397E+05	1.1715E+03
1.0634E+01	1.3673E-01	1.5008E+01	2.8207E+05	1.1659E+03
1.0676E+01	1.4177E-01	1.5560E+01	2.9245E+05	1.1613E+03
1.0730E+01	1.4322E-01	1.5719E+01	2.9544E+05	1.1555E+03
1.0777E+01	1.4941E-01	1.6400E+01	3.0823E+05	1.1505E+03
1.0845E+01	1.5399E-01	1.6902E+01	3.1767E+05	1.1432E+03
1.0859E+01	1.5475E-01	1.6985E+01	3.1923E+05	1.1418E+03
1.0850E+01	1.6145E-01	1.7721E+01	3.3305E+05	1.1427E+03
1.1210E+01	2.1965E-01	2.4109E+01	4.5313E+05	1.1060E+03
1.1510E+01	2.9275E-01	3.2133E+01	6.0392E+05	1.0772E+03
1.1780E+01	3.4778E-01	3.8172E+01	7.1744E+05	1.0525E+03
1.2000E+01	3.6321E-01	3.9867E+01	7.4928E+05	1.0332E+03
1.2300E+01	3.6203E-01	3.9737E+01	7.4684E+05	1.0080E+03
1.2680E+01	3.4369E-01	3.7724E+01	7.0901E+05	9.7779E+02
1.3020E+01	4.0271E-01	4.4202E+01	8.3076E+05	9.5226E+02
1.3280E+01	4.6183E-01	5.0691E+01	9.5271E+05	9.3362E+02
1.3590E+01	5.0587E-01	5.5524E+01	1.0436E+06	9.1232E+02
1.4000E+01	5.4537E-01	5.9860E+01	1.1250E+06	8.8560E+02
1.4270E+01	5.4428E-01	5.9740E+01	1.1228E+06	8.6884E+02
1.4700E+01	5.2766E-01	5.7916E+01	1.0885E+06	8.4343E+02
1.5020E+01	5.0360E-01	5.5275E+01	1.0389E+06	8.2546E+02
1.5390E+01	4.9043E-01	5.3830E+01	1.0117E+06	8.0562E+02
1.5730E+01	5.1104E-01	5.6092E+01	1.0542E+06	7.8820E+02
1.6000E+01	5.1794E-01	5.6850E+01	1.0685E+06	7.7490E+02
1.6590E+01	5.1395E-01	5.6411E+01	1.0602E+06	7.4734E+02
1.7190E+01	5.1159E-01	5.6152E+01	1.0554E+06	7.2126E+02
1.7640E+01	5.0305E-01	5.5215E+01	1.0378E+06	7.0286E+02

Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ . (Continued)

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
1.8000E+01	4.9216E-01	5.4019E+01	1.0153E+06	6.8880E+02
1.8660E+01	4.9043E-01	5.3830E+01	1.0117E+06	6.6444E+02
1.9260E+01	4.9561E-01	5.4398E+01	1.0224E+06	6.4374E+02
2.0000E+01	4.8934E-01	5.3710E+01	1.0095E+06	6.1992E+02
2.0620E+01	4.7472E-01	5.2106E+01	9.7931E+05	6.0128E+02
2.1210E+01	4.5556E-01	5.0003E+01	9.3978E+05	5.8456E+02
2.1500E+01	4.2364E-01	4.6500E+01	8.7394E+05	5.7667E+02
2.2000E+01	4.0865E-01	4.4853E+01	8.4300E+05	5.6356E+02
2.2500E+01	3.9703E-01	4.3578E+01	8.1903E+05	5.5104E+02
2.3000E+01	3.8266E-01	4.2002E+01	7.8940E+05	5.3906E+02
2.3500E+01	3.6703E-01	4.0286E+01	7.5715E+05	5.2759E+02
2.4000E+01	3.5415E-01	3.8871E+01	7.3057E+05	5.1660E+02
2.4500E+01	3.4115E-01	3.7445E+01	7.0377E+05	5.0606E+02
2.5000E+01	3.2764E-01	3.5962E+01	6.7588E+05	4.9594E+02
2.5500E+01	3.1221E-01	3.4269E+01	6.4407E+05	4.8621E+02
2.6000E+01	2.9838E-01	3.2750E+01	6.1553E+05	4.7686E+02
2.6500E+01	2.8856E-01	3.1672E+01	5.9527E+05	4.6786E+02
2.7000E+01	2.7778E-01	3.0490E+01	5.7304E+05	4.5920E+02
2.7500E+01	2.6754E-01	2.9365E+01	5.5191E+05	4.5085E+02
2.8000E+01	2.6141E-01	2.8693E+01	5.3927E+05	4.4280E+02
2.8500E+01	2.5317E-01	2.7788E+01	5.2227E+05	4.3503E+02
2.9000E+01	2.4493E-01	2.6884E+01	5.0528E+05	4.2753E+02
2.9500E+01	2.3585E-01	2.5887E+01	4.8654E+05	4.2029E+02
3.0000E+01	2.1688E-01	2.3805E+01	4.4740E+05	4.1328E+02
3.0500E+01	2.0777E-01	2.2805E+01	4.2861E+05	4.0651E+02
3.1000E+01	1.9826E-01	2.1762E+01	4.0900E+05	3.9995E+02
3.1500E+01	1.9576E-01	2.1487E+01	4.0384E+05	3.9360E+02
3.2000E+01	1.9176E-01	2.1048E+01	3.9558E+05	3.8745E+02
3.2500E+01	1.8505E-01	2.0312E+01	3.8175E+05	3.8149E+02
3.3000E+01	1.7915E-01	1.9663E+01	3.6957E+05	3.7571E+02
3.3500E+01	1.7524E-01	1.9235E+01	3.6151E+05	3.7010E+02
3.4000E+01	1.7164E-01	1.8840E+01	3.5408E+05	3.6466E+02
3.4500E+01	1.6574E-01	1.8191E+01	3.4190E+05	3.5937E+02
3.5000E+01	1.5923E-01	1.7477E+01	3.2848E+05	3.5424E+02
3.6000E+01	1.5893E-01	1.7444E+01	3.2786E+05	3.4440E+02
3.7000E+01	1.4942E-01	1.6401E+01	3.0825E+05	3.3509E+02

Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ . (Continued)

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
3.8000E+01	1.4422E-01	1.5830E+01	2.9751E+05	3.2627E+02
3.9000E+01	1.3361E-01	1.4665E+01	2.7563E+05	3.1791E+02
4.0000E+01	1.2771E-01	1.4017E+01	2.6344E+05	3.0996E+02
4.1000E+01	1.2470E-01	1.3687E+01	2.5725E+05	3.0240E+02
4.2000E+01	1.1700E-01	1.2842E+01	2.4135E+05	2.9520E+02
4.3000E+01	1.1219E-01	1.2314E+01	2.3144E+05	2.8834E+02
4.4000E+01	1.0649E-01	1.1688E+01	2.1967E+05	2.8178E+02
4.5000E+01	9.9982E-02	1.0974E+01	2.0625E+05	2.7552E+02
4.6000E+01	9.7580E-02	1.0711E+01	2.0130E+05	2.6953E+02
4.7000E+01	9.7180E-02	1.0667E+01	2.0047E+05	2.6380E+02
4.8000E+01	9.2276E-02	1.0128E+01	1.9036E+05	2.5830E+02
4.9000E+01	8.8873E-02	9.7548E+00	1.8334E+05	2.5303E+02
5.0000E+01	8.3769E-02	9.1946E+00	1.7281E+05	2.4797E+02
5.1000E+01	8.2768E-02	9.0847E+00	1.7074E+05	2.4311E+02
5.2000E+01	7.8064E-02	8.5684E+00	1.6104E+05	2.3843E+02
5.3000E+01	7.4561E-02	8.1839E+00	1.5381E+05	2.3393E+02
5.4000E+01	7.2760E-02	7.9862E+00	1.5010E+05	2.2960E+02
5.5000E+01	6.9057E-02	7.5797E+00	1.4246E+05	2.2543E+02
5.6000E+01	6.6855E-02	7.3381E+00	1.3792E+05	2.2140E+02
5.7000E+01	6.5854E-02	7.2282E+00	1.3585E+05	2.1752E+02
5.8000E+01	6.3953E-02	7.0195E+00	1.3193E+05	2.1377E+02
5.9000E+01	6.1150E-02	6.7119E+00	1.2615E+05	2.1014E+02
6.0000E+01	5.4945E-02	6.0308E+00	1.1335E+05	2.0664E+02
6.1000E+01	5.7147E-02	6.2725E+00	1.1789E+05	2.0325E+02
6.2000E+01	5.4345E-02	5.9649E+00	1.1211E+05	1.9997E+02
6.3000E+01	5.4044E-02	5.9320E+00	1.1149E+05	1.9680E+02
6.4000E+01	5.2843E-02	5.8002E+00	1.0901E+05	1.9373E+02
6.5000E+01	5.2343E-02	5.7452E+00	1.0798E+05	1.9074E+02
6.6000E+01	4.7939E-02	5.2619E+00	9.8895E+04	1.8785E+02
6.7000E+01	4.9040E-02	5.3827E+00	1.0117E+05	1.8505E+02
6.8000E+01	4.6438E-02	5.0971E+00	9.5798E+04	1.8233E+02
6.9000E+01	4.3636E-02	4.7895E+00	9.0017E+04	1.7969E+02
7.0000E+01	4.3035E-02	4.7236E+00	8.8778E+04	1.7712E+02
7.1000E+01	4.1734E-02	4.5808E+00	8.6094E+04	1.7463E+02
7.2000E+01	4.0433E-02	4.4380E+00	8.3410E+04	1.7220E+02
7.3000E+01	3.8732E-02	4.2512E+00	7.9901E+04	1.6984E+02



Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ . (Continued)

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
7.4000E+01	3.8231E-02	4.1963E+00	7.8868E+04	1.6755E+02
7.5000E+01	3.8632E-02	4.2403E+00	7.9694E+04	1.6531E+02
7.6000E+01	3.8031E-02	4.1744E+00	7.8455E+04	1.6314E+02
7.7000E+01	3.6430E-02	3.9986E+00	7.5152E+04	1.6102E+02
7.8000E+01	3.4829E-02	3.8228E+00	7.1849E+04	1.5895E+02
7.9000E+01	3.5129E-02	3.8558E+00	7.2468E+04	1.5694E+02
8.0000E+01	3.4028E-02	3.7349E+00	7.0197E+04	1.5498E+02
8.5000E+01	2.8924E-02	3.1747E+00	5.9667E+04	1.4586E+02
9.0000E+01	2.5521E-02	2.8012E+00	5.2648E+04	1.3776E+02
9.5000E+01	2.2919E-02	2.5156E+00	4.7280E+04	1.3051E+02
1.0000E+02	2.0117E-02	2.2080E+00	4.1499E+04	1.2398E+02
1.0500E+02	1.8215E-02	1.9993E+00	3.7576E+04	1.1808E+02
1.1000E+02	1.6614E-02	1.8235E+00	3.4273E+04	1.1271E+02
1.1500E+02	1.5012E-02	1.6478E+00	3.0969E+04	1.0781E+02
1.2000E+02	1.3311E-02	1.4610E+00	2.7459E+04	1.0332E+02
1.2500E+02	1.2610E-02	1.3841E+00	2.6014E+04	9.9187E+01
1.3000E+02	1.1309E-02	1.2413E+00	2.3330E+04	9.5372E+01
1.3500E+02	1.0509E-02	1.1534E+00	2.1678E+04	9.1840E+01
1.4000E+02	9.7080E-03	1.0656E+00	2.0027E+04	8.8560E+01
1.4500E+02	9.2076E-03	1.0106E+00	1.8994E+04	8.5506E+01
1.5000E+02	8.9219E-03	9.7928E-01	1.8405E+04	8.2656E+01
1.7500E+02	6.2966E-03	6.9112E-01	1.2989E+04	7.0848E+01
2.0000E+02	4.5302E-03	4.9724E-01	9.3454E+03	6.1992E+01
2.2500E+02	3.3108E-03	3.6340E-01	6.8300E+03	5.5104E+01
2.5000E+02	2.4527E-03	2.6921E-01	5.0597E+03	4.9594E+01
2.7500E+02	1.8381E-03	2.0175E-01	3.7918E+03	4.5085E+01
2.8615E+02	1.6213E-03	1.7796E-01	3.3447E+03	4.3328E+01
2.8690E+02	4.3436E-03	4.7676E-01	8.9604E+03	4.3215E+01
2.8696E+02	4.4577E-03	4.8928E-01	9.1958E+03	4.3206E+01
2.8700E+02	4.5147E-03	4.9553E-01	9.3134E+03	4.3200E+01
2.8724E+02	6.2242E-03	6.8317E-01	1.2840E+04	4.3164E+01
2.8758E+02	1.4487E-02	1.5901E+00	2.9886E+04	4.3113E+01
2.8786E+02	2.4060E-02	2.6408E+00	4.9633E+04	4.3071E+01
2.8802E+02	2.6340E-02	2.8911E+00	5.4336E+04	4.3047E+01
2.8852E+02	2.2637E-02	2.4846E+00	4.6697E+04	4.2972E+01
2.8870E+02	2.3092E-02	2.5347E+00	4.7638E+04	4.2946E+01

Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ . (Continued)

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
2.8883E+02	2.4346E-02	2.6723E+00	5.0224E+04	4.2926E+01
2.8898E+02	3.0330E-02	3.3290E+00	6.2567E+04	4.2904E+01
2.8916E+02	4.4062E-02	4.8363E+00	9.0896E+04	4.2877E+01
2.8925E+02	6.1042E-02	6.7000E+00	1.2592E+05	4.2864E+01
2.8934E+02	6.2242E-02	6.8317E+00	1.2840E+05	4.2851E+01
2.8940E+02	6.0985E-02	6.6938E+00	1.2581E+05	4.2842E+01
2.8956E+02	5.5231E-02	6.0622E+00	1.1394E+05	4.2818E+01
2.8969E+02	4.7082E-02	5.1678E+00	9.7127E+04	4.2799E+01
2.8988E+02	3.7168E-02	4.0796E+00	7.6675E+04	4.2771E+01
2.9001E+02	3.2041E-02	3.5168E+00	6.6097E+04	4.2752E+01
2.9029E+02	3.3352E-02	3.6607E+00	6.8802E+04	4.2710E+01
2.9048E+02	3.2327E-02	3.5482E+00	6.6687E+04	4.2683E+01
2.9064E+02	3.2327E-02	3.5482E+00	6.6687E+04	4.2659E+01
2.9082E+02	3.3296E-02	3.6546E+00	6.8686E+04	4.2633E+01
2.9101E+02	3.5233E-02	3.8672E+00	7.2683E+04	4.2605E+01
2.9129E+02	3.6031E-02	3.9548E+00	7.4329E+04	4.2564E+01
2.9141E+02	3.5462E-02	3.8923E+00	7.3155E+04	4.2546E+01
2.9176E+02	3.5406E-02	3.8861E+00	7.3039E+04	4.2495E+01
2.9207E+02	3.4665E-02	3.8049E+00	7.1511E+04	4.2450E+01
2.9251E+02	3.4438E-02	3.7799E+00	7.1042E+04	4.2386E+01
2.9298E+02	3.2729E-02	3.5924E+00	6.7518E+04	4.2318E+01
2.9376E+02	3.0167E-02	3.3111E+00	6.2231E+04	4.2206E+01
2.9438E+02	2.7546E-02	3.0235E+00	5.6826E+04	4.2117E+01
2.9517E+02	2.5154E-02	2.7610E+00	5.1891E+04	4.2004E+01
2.9564E+02	2.3446E-02	2.5734E+00	4.8367E+04	4.1938E+01
2.9595E+02	2.3446E-02	2.5735E+00	4.8368E+04	4.1894E+01
2.9639E+02	2.1966E-02	2.4110E+00	4.5314E+04	4.1831E+01
2.9698E+02	2.1055E-02	2.3110E+00	4.3434E+04	4.1748E+01
2.9754E+02	2.0258E-02	2.2235E+00	4.1791E+04	4.1670E+01
2.9785E+02	1.9404E-02	2.1298E+00	4.0028E+04	4.1626E+01
2.9832E+02	1.9234E-02	2.1111E+00	3.9678E+04	4.1561E+01
2.9910E+02	1.8380E-02	2.0174E+00	3.7917E+04	4.1452E+01
2.9945E+02	1.8324E-02	2.0113E+00	3.7801E+04	4.1404E+01
3.0063E+02	1.7015E-02	1.8676E+00	3.5101E+04	4.1241E+01
3.0091E+02	1.7301E-02	1.8989E+00	3.5690E+04	4.1203E+01
3.0135E+02	1.6845E-02	1.8490E+00	3.4751E+04	4.1143E+01

Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ . (Continued)

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
3.0163E+02	1.6960E-02	1.8615E+00	3.4986E+04	4.1105E+01
3.0210E+02	1.6505E-02	1.8116E+00	3.4049E+04	4.1041E+01
3.0238E+02	1.6733E-02	1.8366E+00	3.4519E+04	4.1003E+01
3.0276E+02	1.6335E-02	1.7930E+00	3.3698E+04	4.0951E+01
3.0426E+02	1.5540E-02	1.7057E+00	3.2057E+04	4.0749E+01
3.0466E+02	1.5540E-02	1.7057E+00	3.2058E+04	4.0696E+01
3.0482E+02	1.5256E-02	1.6745E+00	3.1471E+04	4.0675E+01
3.0513E+02	1.5427E-02	1.6933E+00	3.1825E+04	4.0633E+01
3.0601E+02	1.4403E-02	1.5809E+00	2.9713E+04	4.0516E+01
3.0660E+02	1.4404E-02	1.5810E+00	2.9714E+04	4.0438E+01
3.0841E+02	1.3382E-02	1.4688E+00	2.7605E+04	4.0201E+01
3.0903E+02	1.3667E-02	1.5001E+00	2.8194E+04	4.0120E+01
3.0928E+02	1.2927E-02	1.4189E+00	2.6667E+04	4.0088E+01
3.0960E+02	1.3156E-02	1.4440E+00	2.7139E+04	4.0047E+01
3.1066E+02	1.2473E-02	1.3691E+00	2.5731E+04	3.9910E+01
3.1110E+02	1.2759E-02	1.4004E+00	2.6321E+04	3.9853E+01
3.1213E+02	1.2248E-02	1.3443E+00	2.5266E+04	3.9722E+01
3.1297E+02	1.1794E-02	1.2945E+00	2.4329E+04	3.9615E+01
3.1319E+02	1.2136E-02	1.3320E+00	2.5035E+04	3.9588E+01
3.1375E+02	1.1396E-02	1.2508E+00	2.3509E+04	3.9517E+01
3.1453E+02	1.1454E-02	1.2572E+00	2.3628E+04	3.9419E+01
3.1590E+02	1.0317E-02	1.1324E+00	2.1283E+04	3.9248E+01
3.1640E+02	1.0660E-02	1.1700E+00	2.1990E+04	3.9186E+01
3.1800E+02	9.7504E-03	1.0702E+00	2.0114E+04	3.8989E+01
3.1856E+02	1.0264E-02	1.1266E+00	2.1174E+04	3.8920E+01
3.1903E+02	9.5237E-03	1.0453E+00	1.9647E+04	3.8863E+01
3.1965E+02	9.8671E-03	1.0830E+00	2.0355E+04	3.8787E+01
3.2000E+02	9.4774E-03	1.0402E+00	1.9551E+04	3.8745E+01
3.2200E+02	9.0784E-03	9.9645E-01	1.8728E+04	3.8504E+01
3.2400E+02	9.1781E-03	1.0074E+00	1.8934E+04	3.8267E+01
3.2600E+02	8.8788E-03	9.7455E-01	1.8316E+04	3.8032E+01
3.2800E+02	8.8788E-03	9.7455E-01	1.8316E+04	3.7800E+01
3.3000E+02	8.5795E-03	9.4170E-01	1.7699E+04	3.7571E+01
3.3500E+02	8.2803E-03	9.0885E-01	1.7081E+04	3.7010E+01
3.4000E+02	7.8812E-03	8.6505E-01	1.6258E+04	3.6466E+01
3.4500E+02	7.9810E-03	8.7600E-01	1.6464E+04	3.5937E+01

Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ . (Continued)

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
3.5000E+02	7.7815E-03	8.5410E-01	1.6052E+04	3.5424E+01
4.0000E+02	4.9272E-03	5.4082E-01	1.0164E+04	3.0996E+01
4.5000E+02	3.6736E-03	4.0321E-01	7.5782E+03	2.7552E+01
5.0000E+02	2.8145E-03	3.0892E-01	5.8060E+03	2.4797E+01
5.3200E+02	2.4028E-03	2.6374E-01	4.9568E+03	2.3305E+01
5.3346E+02	5.3970E-03	5.9238E-01	1.1134E+04	2.3242E+01
5.3374E+02	9.2082E-03	1.0107E+00	1.8996E+04	2.3229E+01
5.3404E+02	1.0389E-02	1.1403E+00	2.1432E+04	2.3216E+01
5.3426E+02	9.1691E-03	1.0064E+00	1.8915E+04	2.3207E+01
5.3454E+02	6.1573E-03	6.7583E-01	1.2702E+04	2.3195E+01
5.3471E+02	5.2802E-03	5.7956E-01	1.0893E+04	2.3187E+01
5.3493E+02	4.5555E-03	5.0002E-01	9.3977E+03	2.3178E+01
5.3555E+02	7.8707E-03	8.6389E-01	1.6237E+04	2.3151E+01
5.3597E+02	1.0233E-02	1.1232E+00	2.1110E+04	2.3133E+01
5.3619E+02	1.1224E-02	1.2319E+00	2.3154E+04	2.3123E+01
5.3655E+02	1.3739E-02	1.5080E+00	2.8342E+04	2.3108E+01
5.3694E+02	1.6597E-02	1.8217E+00	3.4238E+04	2.3091E+01
5.3719E+02	1.6940E-02	1.8593E+00	3.4945E+04	2.3080E+01
5.3755E+02	1.6329E-02	1.7922E+00	3.3685E+04	2.3065E+01
5.3772E+02	1.5758E-02	1.7296E+00	3.2507E+04	2.3057E+01
5.3817E+02	1.5566E-02	1.7086E+00	3.2112E+04	2.3038E+01
5.3833E+02	1.5108E-02	1.6583E+00	3.1167E+04	2.3031E+01
5.3859E+02	1.4841E-02	1.6290E+00	3.0616E+04	2.3020E+01
5.3898E+02	1.4269E-02	1.5661E+00	2.9435E+04	2.3003E+01
5.3939E+02	1.3391E-02	1.4698E+00	2.7624E+04	2.2986E+01
5.3995E+02	1.2398E-02	1.3609E+00	2.5577E+04	2.2962E+01
5.4090E+02	1.0872E-02	1.1933E+00	2.2428E+04	2.2922E+01
5.4157E+02	9.9557E-03	1.0927E+00	2.0538E+04	2.2893E+01
5.4187E+02	9.8789E-03	1.0843E+00	2.0379E+04	2.2881E+01
5.4210E+02	9.3830E-03	1.0299E+00	1.9356E+04	2.2871E+01
5.4257E+02	9.2677E-03	1.0172E+00	1.9118E+04	2.2851E+01
5.4302E+02	8.8475E-03	9.7112E-01	1.8252E+04	2.2832E+01
5.4330E+02	8.4277E-03	9.2503E-01	1.7386E+04	2.2821E+01
5.4349E+02	8.6179E-03	9.4591E-01	1.7778E+04	2.2813E+01
5.4377E+02	8.3124E-03	9.1238E-01	1.7148E+04	2.2801E+01
5.4461E+02	7.9678E-03	8.7456E-01	1.6437E+04	2.2766E+01

Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ . (Continued)

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
5.4494E+02	7.9671E-03	8.7448E-01	1.6436E+04	2.2752E+01
5.4522E+02	7.6235E-03	8.3677E-01	1.5727E+04	2.2740E+01
5.4597E+02	7.5840E-03	8.3243E-01	1.5645E+04	2.2709E+01
5.4656E+02	7.4305E-03	8.1557E-01	1.5328E+04	2.2684E+01
5.4686E+02	7.2392E-03	7.9458E-01	1.4934E+04	2.2672E+01
5.4714E+02	7.3911E-03	8.1125E-01	1.5247E+04	2.2660E+01
5.4801E+02	7.0845E-03	7.7760E-01	1.4615E+04	2.2624E+01
5.5004E+02	6.8138E-03	7.4789E-01	1.4056E+04	2.2541E+01
5.5216E+02	6.8098E-03	7.4745E-01	1.4048E+04	2.2454E+01
5.5403E+02	6.7300E-03	7.3869E-01	1.3883E+04	2.2379E+01
5.5698E+02	6.6863E-03	7.3389E-01	1.3793E+04	2.2260E+01
5.6002E+02	6.5661E-03	7.2071E-01	1.3545E+04	2.2139E+01
5.6220E+02	6.4858E-03	7.1188E-01	1.3380E+04	2.2053E+01
5.6406E+02	6.3297E-03	6.9476E-01	1.3058E+04	2.1981E+01
5.6607E+02	6.2115E-03	6.8178E-01	1.2814E+04	2.1903E+01
5.6800E+02	6.0934E-03	6.6882E-01	1.2570E+04	2.1828E+01
6.0000E+02	5.6224E-03	6.1712E-01	1.1599E+04	2.0664E+01
7.0000E+02	3.8382E-03	4.2128E-01	7.9179E+03	1.7712E+01
8.0000E+02	2.7310E-03	2.9976E-01	5.6338E+03	1.5498E+01
9.0000E+02	2.0097E-03	2.2058E-01	4.1458E+03	1.3776E+01
1.0000E+03	1.5205E-03	1.6690E-01	3.1367E+03	1.2398E+01
1.2500E+03	8.3215E-04	9.1338E-02	1.7167E+03	9.9187E+00
1.5000E+03	5.0341E-04	5.5254E-02	1.0385E+03	8.2656E+00
1.7500E+03	3.2725E-04	3.5919E-02	6.7508E+02	7.0848E+00
2.0000E+03	2.2455E-04	2.4647E-02	4.6323E+02	6.1992E+00
2.2500E+03	1.6031E-04	1.7596E-02	3.3070E+02	5.5104E+00
2.5000E+03	1.1830E-04	1.2984E-02	2.4404E+02	4.9594E+00
2.7500E+03	8.9781E-05	9.8545E-03	1.8521E+02	4.5085E+00
3.0000E+03	6.9708E-05	7.6512E-03	1.4380E+02	4.1328E+00
3.5000E+03	4.4342E-05	4.8670E-03	9.1474E+01	3.5424E+00
4.0000E+03	2.9811E-05	3.2721E-03	6.1498E+01	3.0996E+00
4.5000E+03	2.0904E-05	2.2945E-03	4.3124E+01	2.7552E+00
5.0000E+03	1.5154E-05	1.6633E-03	3.1262E+01	2.4797E+00
6.0000E+03	8.5931E-06	9.4319E-04	1.7727E+01	2.0664E+00
7.0000E+03	5.2540E-06	5.7669E-04	1.0839E+01	1.7712E+00
8.0000E+03	3.3936E-06	3.7248E-04	7.0006E+00	1.5498E+00

Table I. Oscillator-strength density,  $df/dE$ , photoabsorption cross section,  $\sigma_a$ , and mass absorption coefficient,  $\mu_m$ . (Continued)

Energy (eV)	$f_n$ (eV <sup>-1</sup> )	$\sigma_a$ (Mb)	$\mu_m$ (cm <sup>2</sup> g <sup>-1</sup> )	$\lambda$ (Å)
9.0000E+03	2.2845E-06	2.5075E-04	4.7127E+00	1.3776E+00
1.0000E+04	1.6517E-06	1.8129E-04	3.4073E+00	1.2398E+00
1.2500E+04	8.0797E-07	8.8684E-05	1.6668E+00	9.9187E-01
1.5000E+04	4.5043E-07	4.9439E-05	9.2919E-01	8.2656E-01
1.7500E+04	2.7485E-07	3.0168E-05	5.6699E-01	7.0848E-01
2.0000E+04	1.7917E-07	1.9665E-05	3.6960E-01	6.1992E-01
2.2500E+04	1.2284E-07	1.3483E-05	2.5341E-01	5.5104E-01
2.5000E+04	8.7646E-08	9.6201E-06	1.8081E-01	4.9594E-01
2.7500E+04	6.4415E-08	7.0703E-06	1.3288E-01	4.5085E-01
3.0000E+04	4.8430E-08	5.3158E-06	9.9908E-02	4.1328E-01
3.5000E+04	2.9197E-08	3.2046E-06	6.0230E-02	3.5424E-01
4.0000E+04	1.8836E-08	2.0675E-06	3.8857E-02	3.0996E-01
4.5000E+04	1.2797E-08	1.4046E-06	2.6398E-02	2.7552E-01
5.0000E+04	9.0558E-09	9.9398E-07	1.8681E-02	2.4797E-01
6.0000E+04	4.9783E-09	5.4642E-07	1.0270E-02	2.0664E-01
7.0000E+04	3.0018E-09	3.2948E-07	6.1924E-03	1.7712E-01
8.0000E+04	1.9362E-09	2.1251E-07	3.9941E-03	1.5498E-01
9.0000E+04	1.3145E-09	1.4428E-07	2.7116E-03	1.3776E-01
1.0000E+05	9.2929E-10	1.0200E-07	1.9170E-03	1.2398E-01

When photon energy,  $E$ , is higher than  $10^5$  eV, the photoabsorption cross section of each atom,  $\sigma_a$ , in Mb is given by

$$\sigma_a = 680 (Z_c - 0.3)^6 \left( \frac{Ry}{E} \right)^4 \frac{\exp[-4\chi \arctan(\chi^{-1})]}{1 - \exp(-2\pi\chi)}.$$

Here  $Z_c$  denotes the atomic number of constituent atoms and  $E$  is photon energy in eV. The quantity  $\chi$  is given by

$$\chi = \sqrt{\frac{E_K}{E - E_K}},$$

where  $E_K = 13.6, 292.4$  and  $539.0$  eV for hydrogen, carbon, and oxygen atoms, respectively.

