Ozone (O_3)

Z = 24 Molecular Mass : $M_{\mathrm{A}} = 47.9982$

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

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

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

Energy (eV)	f_n (eV^{-1})	σ_a (Mb)	μ_{m} (cm^2 g^{-1})	λ (Å)
1.6500E+00	4.2879E-06	4.7064E-04	5.9050E+00	7.5142E+03
1.6581E+00	4.1338E-06	4.5373E-04	5.6928E+00	7.4773E+03
1.6646E+00	4.0878E-06	4.4868E-04	5.6294E+00	7.4483E+03
1.6741E+00	4.1111E-06	4.5124E-04	5.6615E+00	7.4061E+03
1.6844E+00	4.3038E-06	4.7239E-04	5.9269E+00	7.3609E+03
1.6955E+00	4.8832E-06	5.3598E-04	6.7247E+00	7.3127E+03
1.7074E+00	5.4586E-06	5.9914E-04	7.5172E+00	7.2617E+03
1.7193E+00	6.3802E-06	7.0029E-04	8.7863E+00	7.2114E+03
1.7265E+00	6.5692E-06	7.2104E-04	9.0466E+00	7.1813E+03
1.7328E+00	6.7207E-06	7.3767E-04	9.2553E+00	7.1550E+03
1.7464E+00	7.2160E-06	7.9203E-04	9.9373E+00	7.0994E+03
1.7590E+00	7.8971E-06	8.6679E-04	1.0875E+01	7.0485E+03
1.7708E+00	9.0775E-06	9.9635E-04	1.2501E+01	7.0015E+03
1.7851E+00	1.0520E-05	1.1547E-03	1.4488E+01	6.9454E+03
1.8007E+00	1.2114E-05	1.3297E-03	1.6683E+01	6.8855E+03
1.8071E+00	1.2500E-05	1.3720E-03	1.7214E+01	6.8609E+03
1.8286E+00	1.4604E-05	1.6029E-03	2.0112E+01	6.7803E+03
1.8475E+00	1.7029E-05	1.8691E-03	2.3451E+01	6.7110E+03
1.8538E+00	1.8256E-05	2.0038E-03	2.5141E+01	6.6881E+03
1.8694E+00	2.0192E-05	2.2163E-03	2.7807E+01	6.6322E+03
1.8870E+00	2.2664E-05	2.4877E-03	3.1212E+01	6.5706E+03
1.9045E+00	2.4853E-05	2.7279E-03	3.4226E+01	6.5099E+03
1.9224E+00	2.7371E-05	3.0043E-03	3.7694E+01	6.4493E+03
1.9462E+00	3.2182E-05	3.5323E-03	4.4318E+01	6.3706E+03
1.9690E+00	3.6194E-05	3.9727E-03	4.9844E+01	6.2967E+03
1.9872E+00	3.8609E-05	4.2378E-03	5.3170E+01	6.2390E+03
2.0138E+00	4.4252E-05	4.8571E-03	6.0940E+01	6.1566E+03
2.0345E+00	4.9566E-05	5.4404E-03	6.8258E+01	6.0940E+03
2.0456E+00	5.1136E-05	5.6128E-03	7.0421E+01	6.0609E+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 (cm^2 g^{-1})	λ (Å)
2.0578E+00	4.9714E-05	5.4567E-03	6.8463E+01	6.0252E+03
2.0646E+00	4.5182E-05	4.9592E-03	6.2221E+01	6.0052E+03
2.0842E+00	4.1488E-05	4.5537E-03	5.7134E+01	5.9488E+03
2.1035E+00	4.1471E-05	4.5519E-03	5.7111E+01	5.8941E+03
2.1188E+00	4.3159E-05	4.7372E-03	5.9436E+01	5.8515E+03
2.1399E+00	4.5101E-05	4.9503E-03	6.2109E+01	5.7939E+03
2.1624E+00	4.3298E-05	4.7524E-03	5.9626E+01	5.7336E+03
2.1789E+00	4.0874E-05	4.4864E-03	5.6289E+01	5.6903E+03
2.1974E+00	3.6514E-05	4.0078E-03	5.0284E+01	5.6424E+03
2.2069E+00	3.4477E-05	3.7842E-03	4.7479E+01	5.6180E+03
2.2214E+00	3.2272E-05	3.5422E-03	4.4442E+01	5.5813E+03
2.2491E+00	3.0265E-05	3.3219E-03	4.1679E+01	5.5125E+03
2.2646E+00	2.8571E-05	3.1360E-03	3.9346E+01	5.4749E+03
2.2799E+00	2.6690E-05	2.9295E-03	3.6756E+01	5.4382E+03
2.3063E+00	2.6451E-05	2.9033E-03	3.6426E+01	5.3760E+03
2.3205E+00	2.4707E-05	2.7119E-03	3.4025E+01	5.3430E+03
2.3360E+00	2.1249E-05	2.3323E-03	2.9262E+01	5.3075E+03
2.3632E+00	1.6748E-05	1.8383E-03	2.3064E+01	5.2465E+03
2.3997E+00	1.4245E-05	1.5635E-03	1.9617E+01	5.1666E+03
2.4112E+00	1.4364E-05	1.5766E-03	1.9780E+01	5.1421E+03
2.4187E+00	1.4889E-05	1.6342E-03	2.0503E+01	5.1260E+03
2.4304E+00	1.5076E-05	1.6547E-03	2.0761E+01	5.1014E+03
2.4385E+00	1.4449E-05	1.5859E-03	1.9898E+01	5.0845E+03
2.4506E+00	1.2191E-05	1.3381E-03	1.6789E+01	5.0593E+03
2.4624E+00	1.0028E-05	1.1007E-03	1.3810E+01	5.0351E+03
2.4747E+00	8.7881E-06	9.6459E-04	1.2102E+01	5.0101E+03
2.4797E+00	8.3863E-06	9.2048E-04	1.1549E+01	4.9999E+03
2.4862E+00	8.0711E-06	8.8590E-04	1.1115E+01	4.9868E+03
2.4985E+00	7.8821E-06	8.6515E-04	1.0855E+01	4.9623E+03
2.5066E+00	7.6179E-06	8.3614E-04	1.0491E+01	4.9464E+03
2.5180E+00	7.0104E-06	7.6947E-04	9.6542E+00	4.9240E+03
2.5271E+00	7.0090E-06	7.6931E-04	9.6523E+00	4.9061E+03
2.5375E+00	7.5958E-06	8.3372E-04	1.0460E+01	4.8861E+03
2.5410E+00	7.8569E-06	8.6238E-04	1.0820E+01	4.8794E+03
2.5523E+00	7.8216E-06	8.5851E-04	1.0771E+01	4.8577E+03
2.5587E+00	7.2921E-06	8.0039E-04	1.0042E+01	4.8456E+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 (cm^2 g^{-1})	λ (Å)
2.5733E+00	5.5439E-06	6.0850E-04	7.6346E+00	4.8181E+03
2.5871E+00	4.2156E-06	4.6271E-04	5.8054E+00	4.7924E+03
2.5978E+00	3.9212E-06	4.3039E-04	5.4000E+00	4.7727E+03
2.6117E+00	3.9114E-06	4.2932E-04	5.3865E+00	4.7473E+03
2.6292E+00	3.3068E-06	3.6296E-04	4.5539E+00	4.7157E+03
2.6354E+00	3.1823E-06	3.4929E-04	4.3824E+00	4.7045E+03
2.6521E+00	3.6128E-06	3.9655E-04	4.9753E+00	4.6749E+03
2.6554E+00	3.7693E-06	4.1372E-04	5.1908E+00	4.6692E+03
2.6586E+00	3.8091E-06	4.1809E-04	5.2456E+00	4.6635E+03
2.6651E+00	3.7367E-06	4.1014E-04	5.1459E+00	4.6522E+03
2.6741E+00	3.2894E-06	3.6104E-04	4.5299E+00	4.6365E+03
2.6852E+00	2.5713E-06	2.8222E-04	3.5409E+00	4.6173E+03
2.6969E+00	1.9844E-06	2.1780E-04	2.7327E+00	4.5973E+03
2.7057E+00	1.8227E-06	2.0006E-04	2.5100E+00	4.5824E+03
2.7225E+00	1.8649E-06	2.0469E-04	2.5682E+00	4.5541E+03
2.7397E+00	1.4795E-06	1.6239E-04	2.0374E+00	4.5254E+03
2.7465E+00	1.4148E-06	1.5529E-04	1.9484E+00	4.5142E+03
2.7534E+00	1.4448E-06	1.5859E-04	1.9897E+00	4.5029E+03
2.7581E+00	1.5494E-06	1.7007E-04	2.1338E+00	4.4952E+03
2.7693E+00	1.6580E-06	1.8198E-04	2.2832E+00	4.4771E+03
2.7774E+00	1.5754E-06	1.7291E-04	2.1695E+00	4.4640E+03
2.7872E+00	1.3898E-06	1.5255E-04	1.9140E+00	4.4483E+03
2.8090E+00	8.3669E-07	9.1836E-05	1.1522E+00	4.4138E+03
2.8126E+00	8.1391E-07	8.9336E-05	1.1209E+00	4.4082E+03
2.8253E+00	8.3110E-07	9.1222E-05	1.1445E+00	4.3883E+03
2.8356E+00	8.1009E-07	8.8917E-05	1.1156E+00	4.3724E+03
2.8505E+00	6.1201E-07	6.7175E-05	8.4282E-01	4.3495E+03
2.8561E+00	5.9280E-07	6.5066E-05	8.1636E-01	4.3411E+03
2.8623E+00	6.0417E-07	6.6314E-05	8.3201E-01	4.3316E+03
2.8699E+00	6.4784E-07	7.1108E-05	8.9216E-01	4.3202E+03
2.8787E+00	6.7012E-07	7.3553E-05	9.2283E-01	4.3069E+03
2.8887E+00	6.1422E-07	6.7417E-05	8.4586E-01	4.2920E+03
2.9004E+00	4.6608E-07	5.1157E-05	6.4185E-01	4.2748E+03
2.9127E+00	3.5215E-07	3.8652E-05	4.8495E-01	4.2567E+03
2.9191E+00	3.3892E-07	3.7200E-05	4.6673E-01	4.2473E+03
2.9328E+00	3.4535E-07	3.7906E-05	4.7559E-01	4.2275E+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 (cm^2 g^{-1})	λ (Å)
2.9444E+00	3.0987E-07	3.4012E-05	4.2673E-01	4.2108E+03
2.9605E+00	2.3462E-07	2.5752E-05	3.2310E-01	4.1879E+03
2.9645E+00	2.3163E-07	2.5424E-05	3.1899E-01	4.1823E+03
2.9712E+00	2.3509E-07	2.5803E-05	3.2374E-01	4.1728E+03
2.9774E+00	2.4786E-07	2.7205E-05	3.4133E-01	4.1642E+03
2.9842E+00	2.5421E-07	2.7902E-05	3.5008E-01	4.1547E+03
2.9916E+00	2.4674E-07	2.7083E-05	3.3980E-01	4.1444E+03
3.0029E+00	2.1041E-07	2.3095E-05	2.8976E-01	4.1288E+03
3.0107E+00	1.6766E-07	1.8403E-05	2.3089E-01	4.1181E+03
3.0180E+00	1.3997E-07	1.5364E-05	1.9276E-01	4.1082E+03
3.0270E+00	1.3586E-07	1.4913E-05	1.8710E-01	4.0960E+03
3.0382E+00	1.3728E-07	1.5068E-05	1.8906E-01	4.0809E+03
3.0465E+00	1.3156E-07	1.4440E-05	1.8117E-01	4.0697E+03
3.0631E+00	1.0110E-07	1.1097E-05	1.3923E-01	4.0477E+03
3.0729E+00	8.9197E-08	9.7904E-06	1.2284E-01	4.0348E+03
3.0859E+00	9.1666E-08	1.0061E-05	1.2624E-01	4.0178E+03
3.0927E+00	9.7959E-08	1.0752E-05	1.3490E-01	4.0089E+03
3.1008E+00	9.4476E-08	1.0370E-05	1.3011E-01	3.9985E+03
3.1175E+00	7.1540E-08	7.8522E-06	9.8519E-02	3.9771E+03
3.1182E+00	6.7983E-08	7.4618E-06	9.3621E-02	3.9762E+03
3.1346E+00	6.1255E-08	6.7234E-06	8.4356E-02	3.9553E+03
3.1439E+00	6.2825E-08	6.8957E-06	8.6518E-02	3.9436E+03
3.1559E+00	6.4024E-08	7.0273E-06	8.8168E-02	3.9287E+03
3.1672E+00	5.1669E-08	5.6712E-06	7.1154E-02	3.9146E+03
3.1799E+00	4.6065E-08	5.0561E-06	6.3437E-02	3.8990E+03
3.2038E+00	5.5150E-08	6.0533E-06	7.5948E-02	3.8699E+03
3.2130E+00	4.6635E-08	5.1187E-06	6.4222E-02	3.8588E+03
3.2283E+00	5.0322E-08	5.5234E-06	6.9300E-02	3.8405E+03
3.2390E+00	6.8433E-08	7.5112E-06	9.4240E-02	3.8279E+03
3.2484E+00	5.6772E-08	6.2314E-06	7.8183E-02	3.8168E+03
3.2593E+00	4.1823E-08	4.5906E-06	5.7596E-02	3.8040E+03
3.2680E+00	4.9658E-08	5.4505E-06	6.8385E-02	3.7939E+03
3.2743E+00	6.6683E-08	7.3192E-06	9.1831E-02	3.7866E+03
3.2905E+00	1.1573E-07	1.2703E-05	1.5937E-01	3.7679E+03
3.3014E+00	1.0518E-07	1.1544E-05	1.4484E-01	3.7555E+03
3.3055E+00	6.1747E-08	6.7774E-06	8.5034E-02	3.7509E+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 (cm^2 g^{-1})	λ (Å)
3.3067E+00	6.8659E-08	7.5361E-06	9.4552E-02	3.7495E+03
3.3115E+00	7.3007E-08	8.0133E-06	1.0054E-01	3.7440E+03
3.3195E+00	1.1841E-07	1.2997E-05	1.6307E-01	3.7350E+03
3.3234E+00	1.2485E-07	1.3704E-05	1.7194E-01	3.7306E+03
3.3335E+00	1.1203E-07	1.2296E-05	1.5428E-01	3.7193E+03
3.3351E+00	1.3704E-07	1.5041E-05	1.8872E-01	3.7176E+03
3.3408E+00	1.3879E-07	1.5234E-05	1.9113E-01	3.7112E+03
3.3460E+00	1.5795E-07	1.7336E-05	2.1751E-01	3.7055E+03
3.3557E+00	1.2243E-07	1.3438E-05	1.6860E-01	3.6947E+03
3.3614E+00	1.5926E-07	1.7481E-05	2.1932E-01	3.6885E+03
3.3664E+00	1.7299E-07	1.8988E-05	2.3823E-01	3.6830E+03
3.3703E+00	2.4135E-07	2.6491E-05	3.3237E-01	3.6787E+03
3.3774E+00	3.7359E-07	4.1005E-05	5.1448E-01	3.6710E+03
3.3786E+00	4.0494E-07	4.4447E-05	5.5766E-01	3.6697E+03
3.3872E+00	3.7195E-07	4.0825E-05	5.1222E-01	3.6604E+03
3.3916E+00	4.4069E-07	4.8371E-05	6.0689E-01	3.6556E+03
3.3930E+00	2.6487E-07	2.9073E-05	3.6476E-01	3.6541E+03
3.3951E+00	1.9390E-07	2.1283E-05	2.6703E-01	3.6519E+03
3.4088E+00	2.6368E-07	2.8942E-05	3.6313E-01	3.6372E+03
3.4164E+00	3.2667E-07	3.5856E-05	4.4987E-01	3.6291E+03
3.4205E+00	3.3864E-07	3.7170E-05	4.6636E-01	3.6247E+03
3.4286E+00	4.8258E-07	5.2969E-05	6.6458E-01	3.6162E+03
3.4377E+00	6.7604E-07	7.4203E-05	9.3099E-01	3.6066E+03
3.4432E+00	7.8922E-07	8.6626E-05	1.0869E+00	3.6008E+03
3.4558E+00	6.3559E-07	6.9763E-05	8.7529E-01	3.5877E+03
3.4651E+00	9.2118E-07	1.0111E-04	1.2686E+00	3.5781E+03
3.4786E+00	1.3379E-06	1.4685E-04	1.8424E+00	3.5642E+03
3.4831E+00	7.7066E-07	8.4589E-05	1.0613E+00	3.5596E+03
3.4933E+00	1.0110E-06	1.1096E-04	1.3922E+00	3.5492E+03
3.5026E+00	9.6879E-07	1.0634E-04	1.3342E+00	3.5398E+03
3.5106E+00	1.1926E-06	1.3090E-04	1.6423E+00	3.5317E+03
3.5205E+00	1.8695E-06	2.0520E-04	2.5746E+00	3.5218E+03
3.5266E+00	2.4527E-06	2.6921E-04	3.3777E+00	3.5157E+03
3.5364E+00	3.6774E-06	4.0363E-04	5.0642E+00	3.5059E+03
3.5400E+00	2.1227E-06	2.3299E-04	2.9232E+00	3.5024E+03
3.9000E+00	3.3744E-04	3.7038E-02	4.6470E+02	3.1791E+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 (cm^2 g^{-1})	λ (Å)
4.0000E+00	1.0189E-03	1.1183E-01	1.4031E+03	3.0996E+03
4.1000E+00	2.8573E-03	3.1362E-01	3.9348E+03	3.0240E+03
4.2000E+00	7.2331E-03	7.9391E-01	9.9608E+03	2.9520E+03
4.3000E+00	1.5721E-02	1.7256E+00	2.1650E+04	2.8834E+03
4.4000E+00	3.1060E-02	3.4092E+00	4.2774E+04	2.8178E+03
4.5000E+00	5.1850E-02	5.6911E+00	7.1404E+04	2.7552E+03
4.6000E+00	7.4552E-02	8.1829E+00	1.0267E+05	2.6953E+03
4.7000E+00	9.0542E-02	9.9380E+00	1.2469E+05	2.6380E+03
4.8000E+00	1.0243E-01	1.1243E+01	1.4106E+05	2.5830E+03
4.9000E+00	1.0354E-01	1.1364E+01	1.4258E+05	2.5303E+03
5.0000E+00	9.9939E-02	1.0969E+01	1.3763E+05	2.4797E+03
5.1000E+00	8.7674E-02	9.6232E+00	1.2074E+05	2.4311E+03
5.2000E+00	6.9879E-02	7.6700E+00	9.6232E+04	2.3843E+03
5.3000E+00	5.1864E-02	5.6926E+00	7.1423E+04	2.3393E+03
5.4000E+00	3.7826E-02	4.1518E+00	5.2091E+04	2.2960E+03
5.5000E+00	2.5739E-02	2.8251E+00	3.5446E+04	2.2543E+03
5.6000E+00	1.7513E-02	1.9223E+00	2.4118E+04	2.2140E+03
5.7000E+00	1.1953E-02	1.3120E+00	1.6461E+04	2.1752E+03
5.8000E+00	7.9696E-03	8.7475E-01	1.0975E+04	2.1377E+03
5.9000E+00	5.6012E-03	6.1479E-01	7.7136E+03	2.1014E+03
6.0000E+00	4.3553E-03	4.7804E-01	5.9978E+03	2.0664E+03
6.1000E+00	3.4804E-03	3.8201E-01	4.7929E+03	2.0325E+03
6.2000E+00	3.3709E-03	3.6999E-01	4.6421E+03	1.9997E+03
6.3000E+00	3.5199E-03	3.8635E-01	4.8474E+03	1.9680E+03
6.4000E+00	3.9319E-03	4.3157E-01	5.4147E+03	1.9373E+03
6.5000E+00	4.8740E-03	5.3498E-01	6.7121E+03	1.9074E+03
6.6000E+00	5.8060E-03	6.3728E-01	7.9957E+03	1.8785E+03
6.7000E+00	7.1386E-03	7.8354E-01	9.8307E+03	1.8505E+03
6.7451E+00	7.8589E-03	8.6260E-01	1.0823E+04	1.8381E+03
6.9586E+00	8.1797E-03	8.9781E-01	1.1264E+04	1.7817E+03
7.1392E+00	1.0358E-02	1.1369E+00	1.4265E+04	1.7367E+03
7.1688E+00	9.6684E-03	1.0612E+00	1.3315E+04	1.7295E+03
7.3166E+00	1.0664E-02	1.1705E+00	1.4686E+04	1.6946E+03
7.4184E+00	1.0705E-02	1.1750E+00	1.4742E+04	1.6713E+03
7.4645E+00	1.0256E-02	1.1257E+00	1.4124E+04	1.6610E+03
7.6090E+00	1.0315E-02	1.1322E+00	1.4205E+04	1.6294E+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 (cm^2 g^{-1})	λ (Å)
7.6978E+00	8.9481E-03	9.8215E-01	1.2323E+04	1.6106E+03
7.7142E+00	9.8901E-03	1.0855E+00	1.3620E+04	1.6072E+03
7.7766E+00	9.9160E-03	1.0884E+00	1.3656E+04	1.5943E+03
7.8586E+00	1.1586E-02	1.2717E+00	1.5956E+04	1.5777E+03
7.9243E+00	1.2080E-02	1.3260E+00	1.6636E+04	1.5646E+03
7.9603E+00	1.3967E-02	1.5330E+00	1.9234E+04	1.5575E+03
7.9997E+00	1.3982E-02	1.5347E+00	1.9256E+04	1.5499E+03
8.0883E+00	1.6357E-02	1.7954E+00	2.2526E+04	1.5329E+03
8.2129E+00	1.9448E-02	2.1346E+00	2.6783E+04	1.5096E+03
8.3013E+00	2.2759E-02	2.4980E+00	3.1342E+04	1.4936E+03
8.3896E+00	2.7472E-02	3.0154E+00	3.7833E+04	1.4778E+03
8.4813E+00	3.1720E-02	3.4816E+00	4.3682E+04	1.4619E+03
8.5861E+00	3.6440E-02	3.9997E+00	5.0182E+04	1.4440E+03
8.7041E+00	3.9762E-02	4.3644E+00	5.4758E+04	1.4244E+03
8.8058E+00	4.1675E-02	4.5742E+00	5.7391E+04	1.4080E+03
8.8846E+00	4.2876E-02	4.7061E+00	5.9045E+04	1.3955E+03
8.9337E+00	4.4065E-02	4.8367E+00	6.0684E+04	1.3878E+03
8.9729E+00	4.7589E-02	5.2234E+00	6.5536E+04	1.3818E+03
9.0183E+00	5.5092E-02	6.0470E+00	7.5869E+04	1.3748E+03
9.0315E+00	5.4396E-02	5.9705E+00	7.4910E+04	1.3728E+03
9.0537E+00	6.4462E-02	7.0754E+00	8.8773E+04	1.3694E+03
9.0856E+00	7.5935E-02	8.3347E+00	1.0457E+05	1.3646E+03
9.0948E+00	8.4593E-02	9.2850E+00	1.1650E+05	1.3632E+03
9.1151E+00	1.1758E-01	1.2905E+01	1.6192E+05	1.3602E+03
9.1280E+00	1.2063E-01	1.3240E+01	1.6612E+05	1.3583E+03
9.1479E+00	1.1829E-01	1.2984E+01	1.6290E+05	1.3553E+03
9.1672E+00	1.2322E-01	1.3524E+01	1.6968E+05	1.3525E+03
9.1728E+00	1.3561E-01	1.4885E+01	1.8676E+05	1.3517E+03
9.1887E+00	1.4216E-01	1.5604E+01	1.9577E+05	1.3493E+03
9.2046E+00	1.4849E-01	1.6298E+01	2.0448E+05	1.3470E+03
9.2350E+00	1.3844E-01	1.5196E+01	1.9065E+05	1.3425E+03
9.2572E+00	1.4850E-01	1.6300E+01	2.0451E+05	1.3393E+03
9.2711E+00	1.3986E-01	1.5351E+01	1.9261E+05	1.3373E+03
9.2815E+00	1.3238E-01	1.4530E+01	1.8230E+05	1.3358E+03
9.2944E+00	1.3589E-01	1.4916E+01	1.8714E+05	1.3340E+03
9.3138E+00	1.3965E-01	1.5328E+01	1.9231E+05	1.3312E+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 (cm^2 g^{-1})	λ (Å)
9.3306E+00	1.3450E-01	1.4763E+01	1.8523E+05	1.3288E+03
9.3379E+00	1.2562E-01	1.3788E+01	1.7299E+05	1.3278E+03
9.3618E+00	1.1510E-01	1.2634E+01	1.5851E+05	1.3244E+03
9.4065E+00	1.3033E-01	1.4305E+01	1.7948E+05	1.3181E+03
9.4203E+00	1.2284E-01	1.3484E+01	1.6917E+05	1.3161E+03
9.4505E+00	1.1444E-01	1.2561E+01	1.5760E+05	1.3119E+03
9.4595E+00	1.2543E-01	1.3768E+01	1.7274E+05	1.3107E+03
9.4850E+00	1.3504E-01	1.4822E+01	1.8597E+05	1.3072E+03
9.4999E+00	1.1352E-01	1.2461E+01	1.5634E+05	1.3051E+03
9.5308E+00	9.6230E-02	1.0562E+01	1.3252E+05	1.3009E+03
9.5446E+00	8.8284E-02	9.6901E+00	1.2158E+05	1.2990E+03
9.5654E+00	7.5195E-02	8.2535E+00	1.0355E+05	1.2962E+03
9.5761E+00	6.4908E-02	7.1244E+00	8.9387E+04	1.2947E+03
9.5997E+00	5.7434E-02	6.3040E+00	7.9094E+04	1.2915E+03
9.6361E+00	5.3941E-02	5.9206E+00	7.4283E+04	1.2867E+03
9.6892E+00	4.7413E-02	5.2041E+00	6.5294E+04	1.2796E+03
9.7914E+00	4.3478E-02	4.7722E+00	5.9875E+04	1.2663E+03
9.8826E+00	5.2871E-02	5.8032E+00	7.2811E+04	1.2546E+03
9.9244E+00	6.4816E-02	7.1143E+00	8.9260E+04	1.2493E+03
9.9729E+00	7.3723E-02	8.0920E+00	1.0153E+05	1.2432E+03
1.0013E+01	1.0649E-01	1.1688E+01	1.4665E+05	1.2382E+03
1.0054E+01	1.6661E-01	1.8287E+01	2.2944E+05	1.2332E+03
1.0074E+01	2.0965E-01	2.3012E+01	2.8872E+05	1.2307E+03
1.0092E+01	2.2159E-01	2.4322E+01	3.0515E+05	1.2285E+03
1.0109E+01	2.1575E-01	2.3680E+01	2.9711E+05	1.2265E+03
1.0145E+01	2.5762E-01	2.8277E+01	3.5478E+05	1.2221E+03
1.0156E+01	2.4780E-01	2.7199E+01	3.4126E+05	1.2208E+03
1.0173E+01	2.3939E-01	2.6276E+01	3.2967E+05	1.2188E+03
1.0216E+01	2.7917E-01	3.0642E+01	3.8445E+05	1.2136E+03
1.0236E+01	2.3217E-01	2.5483E+01	3.1973E+05	1.2113E+03
1.0245E+01	2.1065E-01	2.3122E+01	2.9010E+05	1.2102E+03
1.0261E+01	2.0622E-01	2.2635E+01	2.8399E+05	1.2083E+03
1.0287E+01	2.1769E-01	2.3894E+01	2.9979E+05	1.2053E+03
1.0298E+01	2.0343E-01	2.2329E+01	2.8015E+05	1.2040E+03
1.0310E+01	1.7606E-01	1.9325E+01	2.4246E+05	1.2026E+03
1.0325E+01	1.4918E-01	1.6374E+01	2.0544E+05	1.2008E+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 (cm^2 g^{-1})	λ (Å)
1.0346E+01	1.3936E-01	1.5296E+01	1.9192E+05	1.1984E+03
1.0358E+01	1.4569E-01	1.5991E+01	2.0063E+05	1.1970E+03
1.0372E+01	1.3843E-01	1.5195E+01	1.9064E+05	1.1954E+03
1.0387E+01	1.1459E-01	1.2578E+01	1.5781E+05	1.1936E+03
1.0408E+01	9.6119E-02	1.0550E+01	1.3237E+05	1.1912E+03
1.0432E+01	9.0749E-02	9.9607E+00	1.2497E+05	1.1885E+03
1.0444E+01	9.4496E-02	1.0372E+01	1.3013E+05	1.1871E+03
1.0465E+01	8.8190E-02	9.6798E+00	1.2145E+05	1.1848E+03
1.0479E+01	7.9074E-02	8.6793E+00	1.0890E+05	1.1832E+03
1.0512E+01	6.9967E-02	7.6796E+00	9.6353E+04	1.1795E+03
1.0545E+01	7.4891E-02	8.2201E+00	1.0313E+05	1.1758E+03
1.0568E+01	7.4900E-02	8.2211E+00	1.0315E+05	1.1732E+03
1.0601E+01	7.1873E-02	7.8889E+00	9.8979E+04	1.1696E+03
1.0623E+01	7.5625E-02	8.3007E+00	1.0415E+05	1.1671E+03
1.0644E+01	6.9085E-02	7.5828E+00	9.5139E+04	1.1648E+03
1.0658E+01	5.4356E-02	5.9662E+00	7.4855E+04	1.1633E+03
1.0671E+01	5.0151E-02	5.5047E+00	6.9065E+04	1.1619E+03
1.0688E+01	5.2029E-02	5.7108E+00	7.1651E+04	1.1600E+03
1.0711E+01	5.0167E-02	5.5064E+00	6.9087E+04	1.1575E+03
1.0747E+01	4.5271E-02	4.9690E+00	6.2344E+04	1.1537E+03
1.0773E+01	5.9548E-02	6.5361E+00	8.2005E+04	1.1509E+03
1.0788E+01	6.7974E-02	7.4609E+00	9.3609E+04	1.1493E+03
1.0811E+01	7.3129E-02	8.0267E+00	1.0071E+05	1.1468E+03
1.0834E+01	7.3606E-02	8.0790E+00	1.0136E+05	1.1444E+03
1.0898E+01	8.8366E-02	9.6992E+00	1.2169E+05	1.1377E+03
1.0923E+01	1.0638E-01	1.1677E+01	1.4650E+05	1.1351E+03
1.0959E+01	1.1318E-01	1.2423E+01	1.5587E+05	1.1313E+03
1.0978E+01	1.1717E-01	1.2861E+01	1.6136E+05	1.1294E+03
1.0992E+01	1.1320E-01	1.2425E+01	1.5589E+05	1.1279E+03
1.1008E+01	1.1601E-01	1.2733E+01	1.5976E+05	1.1263E+03
1.1024E+01	1.1321E-01	1.2426E+01	1.5590E+05	1.1247E+03
1.1053E+01	1.2772E-01	1.4019E+01	1.7589E+05	1.1217E+03
1.1067E+01	1.1557E-01	1.2685E+01	1.5915E+05	1.1203E+03
1.1087E+01	1.0786E-01	1.1839E+01	1.4854E+05	1.1183E+03
1.1125E+01	1.2752E-01	1.3997E+01	1.7561E+05	1.1145E+03
1.1143E+01	1.0858E-01	1.1918E+01	1.4953E+05	1.1127E+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 (cm^2 g^{-1})	λ (Å)
1.1160E+01	1.0297E-01	1.1302E+01	1.4181E+05	1.1110E+03
1.1179E+01	1.1397E-01	1.2509E+01	1.5695E+05	1.1091E+03
1.1198E+01	1.1842E-01	1.2998E+01	1.6308E+05	1.1072E+03
1.1216E+01	1.0065E-01	1.1048E+01	1.3861E+05	1.1054E+03
1.1223E+01	9.4116E-02	1.0330E+01	1.2961E+05	1.1047E+03
1.1240E+01	8.7802E-02	9.6373E+00	1.2091E+05	1.1031E+03
1.1770E+01	5.5161E-02	6.0546E+00	7.5964E+04	1.0534E+03
1.2710E+01	8.9945E-02	9.8724E+00	1.2387E+05	9.7549E+02
1.3360E+01	1.3067E-01	1.4343E+01	1.7995E+05	9.2803E+02
1.4110E+01	1.8266E-01	2.0049E+01	2.5155E+05	8.7870E+02
1.5000E+01	2.4828E-01	2.7252E+01	3.4192E+05	8.2656E+02
1.5660E+01	2.9816E-01	3.2726E+01	4.1060E+05	7.9173E+02
1.6350E+01	3.5384E-01	3.8838E+01	4.8728E+05	7.5831E+02
1.7140E+01	3.4128E-01	3.7460E+01	4.6999E+05	7.2336E+02
1.8310E+01	3.3398E-01	3.6658E+01	4.5994E+05	6.7714E+02
1.9600E+01	3.2794E-01	3.5996E+01	4.5162E+05	6.3257E+02
2.0660E+01	3.0540E-01	3.3521E+01	4.2057E+05	6.0012E+02
2.5000E+01	2.6881E-01	2.9505E+01	3.7019E+05	4.9594E+02
3.0000E+01	2.3769E-01	2.6090E+01	3.2734E+05	4.1328E+02
3.5000E+01	2.1120E-01	2.3182E+01	2.9085E+05	3.5424E+02
4.0000E+01	1.8701E-01	2.0527E+01	2.5754E+05	3.0996E+02
4.5000E+01	1.6643E-01	1.8268E+01	2.2920E+05	2.7552E+02
5.0000E+01	1.4677E-01	1.6109E+01	2.0211E+05	2.4797E+02
5.5000E+01	1.2997E-01	1.4266E+01	1.7899E+05	2.2543E+02
6.0000E+01	1.1568E-01	1.2697E+01	1.5930E+05	2.0664E+02
6.5000E+01	1.0333E-01	1.1342E+01	1.4230E+05	1.9074E+02
7.0000E+01	9.1812E-02	1.0077E+01	1.2644E+05	1.7712E+02
7.5000E+01	8.1964E-02	8.9964E+00	1.1287E+05	1.6531E+02
8.0000E+01	7.3227E-02	8.0375E+00	1.0084E+05	1.5498E+02
8.5000E+01	6.6910E-02	7.3441E+00	9.2143E+04	1.4586E+02
9.0000E+01	6.0587E-02	6.6501E+00	8.3436E+04	1.3776E+02
9.5000E+01	5.3887E-02	5.9146E+00	7.4209E+04	1.3051E+02
1.0000E+02	4.8675E-02	5.3427E+00	6.7032E+04	1.2398E+02
1.0500E+02	4.3367E-02	4.7600E+00	5.9722E+04	1.1808E+02
1.0850E+02	3.9826E-02	4.3713E+00	5.4845E+04	1.1427E+02
1.2500E+02	3.0434E-02	3.3405E+00	4.1912E+04	9.9187E+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)
1.5000E+02	2.0499E-02	2.2500E+00	2.8230E+04	8.2656E+01
1.7500E+02	1.4457E-02	1.5868E+00	1.9909E+04	7.0848E+01
2.0000E+02	1.0531E-02	1.1559E+00	1.4503E+04	6.1992E+01
2.2500E+02	7.8753E-03	8.6440E-01	1.0845E+04	5.5104E+01
2.5000E+02	6.0205E-03	6.6082E-01	8.2911E+03	4.9594E+01
2.7500E+02	4.6907E-03	5.1485E-01	6.4597E+03	4.5085E+01
3.0000E+02	3.7152E-03	4.0778E-01	5.1163E+03	4.1328E+01
3.5000E+02	2.4292E-03	2.6663E-01	3.3453E+03	3.5424E+01
4.0000E+02	1.6616E-03	1.8238E-01	2.2882E+03	3.0996E+01
4.5000E+02	1.1781E-03	1.2931E-01	1.6224E+03	2.7552E+01
5.0000E+02	8.5998E-04	9.4392E-02	1.1843E+03	2.4797E+01
5.2750E+02	7.3095E-04	8.0229E-02	1.0066E+03	2.3504E+01
5.2750E+02	9.5393E-04	1.0470E-01	1.3137E+03	2.3504E+01
5.2773E+02	1.3290E-03	1.4587E-01	1.8302E+03	2.3494E+01
5.2802E+02	2.2676E-03	2.4890E-01	3.1228E+03	2.3481E+01
5.2821E+02	4.4594E-03	4.8947E-01	6.1412E+03	2.3473E+01
5.2840E+02	9.2192E-03	1.0119E+00	1.2696E+04	2.3464E+01
5.2856E+02	1.4857E-02	1.6307E+00	2.0459E+04	2.3457E+01
5.2868E+02	2.0117E-02	2.2081E+00	2.7704E+04	2.3452E+01
5.2897E+02	2.4501E-02	2.6893E+00	3.3741E+04	2.3439E+01
5.2914E+02	2.3091E-02	2.5345E+00	3.1799E+04	2.3431E+01
5.2940E+02	1.8048E-02	1.9809E+00	2.4854E+04	2.3420E+01
5.2954E+02	1.2755E-02	1.4000E+00	1.7565E+04	2.3414E+01
5.2974E+02	9.8100E-03	1.0768E+00	1.3510E+04	2.3405E+01
5.3006E+02	5.8942E-03	6.4696E-01	8.1171E+03	2.3391E+01
5.3020E+02	5.2361E-03	5.7472E-01	7.2108E+03	2.3384E+01
5.3036E+02	4.7345E-03	5.1966E-01	6.5199E+03	2.3377E+01
5.3043E+02	3.1684E-03	3.4776E-01	4.3632E+03	2.3374E+01
5.3053E+02	7.8781E-04	8.6471E-02	1.0849E+03	2.3370E+01
5.3079E+02	7.8701E-04	8.6383E-02	1.0838E+03	2.3358E+01
5.3082E+02	1.2880E-03	1.4137E-01	1.7738E+03	2.3357E+01
5.3098E+02	1.1623E-03	1.2757E-01	1.6006E+03	2.3350E+01
5.3101E+02	7.8634E-04	8.6310E-02	1.0829E+03	2.3349E+01
5.3127E+02	8.1686E-04	8.9660E-02	1.1249E+03	2.3337E+01
5.3147E+02	2.2256E-03	2.4428E-01	3.0649E+03	2.3329E+01
5.3157E+02	8.1593E-04	8.9557E-02	1.1236E+03	2.3324E+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)
5.3209E+02	8.1434E-04	8.9383E-02	1.1215E+03	2.3301E+01
5.3215E+02	1.0960E-03	1.2030E-01	1.5094E+03	2.3299E+01
5.3280E+02	1.0627E-03	1.1665E-01	1.4635E+03	2.3270E+01
5.3290E+02	8.1188E-04	8.9113E-02	1.1181E+03	2.3266E+01
5.3348E+02	7.7882E-04	8.5484E-02	1.0725E+03	2.3241E+01
5.3365E+02	1.3420E-03	1.4730E-01	1.8482E+03	2.3233E+01
5.3371E+02	1.5924E-03	1.7479E-01	2.1930E+03	2.3231E+01
5.3397E+02	1.7482E-03	1.9188E-01	2.4075E+03	2.3219E+01
5.3410E+02	2.4682E-03	2.7091E-01	3.3990E+03	2.3214E+01
5.3426E+02	3.1880E-03	3.4992E-01	4.3903E+03	2.3207E+01
5.3445E+02	4.5342E-03	4.9768E-01	6.2442E+03	2.3198E+01
5.3461E+02	7.2584E-03	7.9669E-01	9.9958E+03	2.3192E+01
5.3484E+02	1.2519E-02	1.3742E+00	1.7241E+04	2.3182E+01
5.3493E+02	1.6903E-02	1.8553E+00	2.3278E+04	2.3178E+01
5.3512E+02	2.0557E-02	2.2564E+00	2.8310E+04	2.3169E+01
5.3550E+02	2.3533E-02	2.5830E+00	3.2407E+04	2.3153E+01
5.3590E+02	2.1654E-02	2.3767E+00	2.9820E+04	2.3136E+01
5.3626E+02	1.8147E-02	1.9918E+00	2.4990E+04	2.3120E+01
5.3721E+02	1.0537E-02	1.1565E+00	1.4510E+04	2.3079E+01
5.3747E+02	1.0099E-02	1.1084E+00	1.3907E+04	2.3068E+01
5.3763E+02	8.4391E-03	9.2628E-01	1.1622E+04	2.3061E+01
5.3780E+02	8.3453E-03	9.1599E-01	1.1493E+04	2.3054E+01
5.3819E+02	7.7819E-03	8.5415E-01	1.0717E+04	2.3037E+01
5.3851E+02	8.0642E-03	8.8513E-01	1.1105E+04	2.3024E+01
5.3858E+02	8.4087E-03	9.2295E-01	1.1580E+04	2.3021E+01
5.3880E+02	8.2523E-03	9.0578E-01	1.1365E+04	2.3011E+01
5.3897E+02	8.6284E-03	9.4706E-01	1.1882E+04	2.3004E+01
5.3913E+02	8.5659E-03	9.4020E-01	1.1796E+04	2.2997E+01
5.3926E+02	9.0358E-03	9.9178E-01	1.2444E+04	2.2992E+01
5.3952E+02	9.2867E-03	1.0193E+00	1.2789E+04	2.2980E+01
5.3968E+02	9.1615E-03	1.0056E+00	1.2617E+04	2.2974E+01
5.3997E+02	9.4747E-03	1.0400E+00	1.3048E+04	2.2961E+01
5.4017E+02	1.0039E-02	1.1019E+00	1.3826E+04	2.2953E+01
5.4030E+02	1.0321E-02	1.1328E+00	1.4213E+04	2.2947E+01
5.4053E+02	1.0008E-02	1.0985E+00	1.3783E+04	2.2938E+01
5.4059E+02	1.0290E-02	1.1294E+00	1.4170E+04	2.2935E+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)
5.4065E+02	1.0322E-02	1.1329E+00	1.4214E+04	2.2932E+01
5.4082E+02	1.0854E-02	1.1913E+00	1.4947E+04	2.2925E+01
5.4114E+02	1.0855E-02	1.1914E+00	1.4948E+04	2.2912E+01
5.4140E+02	1.0541E-02	1.1570E+00	1.4517E+04	2.2901E+01
5.4169E+02	1.1575E-02	1.2705E+00	1.5940E+04	2.2888E+01
5.4192E+02	1.1513E-02	1.2637E+00	1.5855E+04	2.2879E+01
5.4221E+02	1.2171E-02	1.3359E+00	1.6760E+04	2.2866E+01
5.4238E+02	1.1670E-02	1.2809E+00	1.6071E+04	2.2859E+01
5.4286E+02	1.0762E-02	1.1812E+00	1.4820E+04	2.2839E+01
5.4312E+02	1.0981E-02	1.2053E+00	1.5122E+04	2.2828E+01
5.4322E+02	1.0887E-02	1.1950E+00	1.4993E+04	2.2824E+01
5.4351E+02	1.1263E-02	1.2363E+00	1.5511E+04	2.2812E+01
5.4368E+02	1.1045E-02	1.2123E+00	1.5210E+04	2.2805E+01
5.4394E+02	1.1641E-02	1.2777E+00	1.6031E+04	2.2794E+01
5.4416E+02	1.0733E-02	1.1780E+00	1.4780E+04	2.2785E+01
5.4423E+02	9.9803E-03	1.0954E+00	1.3744E+04	2.2782E+01
5.4452E+02	9.4175E-03	1.0337E+00	1.2969E+04	2.2769E+01
5.4462E+02	8.8535E-03	9.7177E-01	1.2192E+04	2.2765E+01
5.4482E+02	8.4153E-03	9.2367E-01	1.1589E+04	2.2757E+01
5.4540E+02	7.9461E-03	8.7217E-01	1.0943E+04	2.2733E+01
5.4560E+02	8.0716E-03	8.8594E-01	1.1116E+04	2.2724E+01
5.4596E+02	7.1950E-03	7.8973E-01	9.9085E+03	2.2709E+01
5.4612E+02	7.0072E-03	7.6912E-01	9.6498E+03	2.2703E+01
5.4625E+02	7.2893E-03	8.0008E-01	1.0038E+04	2.2697E+01
5.4641E+02	7.2895E-03	8.0010E-01	1.0039E+04	2.2691E+01
5.4664E+02	6.8199E-03	7.4856E-01	9.3919E+03	2.2681E+01
5.4687E+02	6.6949E-03	7.3484E-01	9.2197E+03	2.2672E+01
5.4706E+02	6.1627E-03	6.7642E-01	8.4868E+03	2.2664E+01
5.4745E+02	5.4114E-03	5.9396E-01	7.4522E+03	2.2648E+01
5.4752E+02	5.6620E-03	6.2147E-01	7.7974E+03	2.2645E+01
5.4768E+02	5.3490E-03	5.8712E-01	7.3663E+03	2.2638E+01
5.4778E+02	5.7875E-03	6.3525E-01	7.9702E+03	2.2634E+01
5.4794E+02	5.4745E-03	6.0089E-01	7.5391E+03	2.2627E+01
5.4817E+02	5.5061E-03	6.0435E-01	7.5825E+03	2.2618E+01
5.4830E+02	5.3496E-03	5.8718E-01	7.3671E+03	2.2612E+01
5.4849E+02	5.6631E-03	6.2158E-01	7.7988E+03	2.2605E+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)
5.4856E+02	5.4125E-03	5.9409E-01	7.4538E+03	2.2602E+01
5.4875E+02	5.2248E-03	5.7348E-01	7.1953E+03	2.2594E+01
5.4908E+02	5.2565E-03	5.7695E-01	7.2388E+03	2.2580E+01
5.4934E+02	4.9749E-03	5.4605E-01	6.8510E+03	2.2570E+01
5.4966E+02	5.4137E-03	5.9421E-01	7.4553E+03	2.2557E+01
5.4986E+02	5.0381E-03	5.5299E-01	6.9381E+03	2.2548E+01
5.5009E+02	5.2576E-03	5.7708E-01	7.2404E+03	2.2539E+01
5.5022E+02	5.0385E-03	5.5303E-01	6.9386E+03	2.2534E+01
5.5035E+02	5.3204E-03	5.8398E-01	7.3269E+03	2.2528E+01
5.5051E+02	5.6338E-03	6.1837E-01	7.7585E+03	2.2522E+01
5.5074E+02	5.3209E-03	5.8403E-01	7.3275E+03	2.2512E+01
5.5090E+02	4.9766E-03	5.4623E-01	6.8533E+03	2.2506E+01
5.5119E+02	5.4466E-03	5.9782E-01	7.5006E+03	2.2494E+01
5.5145E+02	5.0084E-03	5.4973E-01	6.8973E+03	2.2483E+01
5.5161E+02	5.1339E-03	5.6350E-01	7.0700E+03	2.2477E+01
5.5174E+02	5.0087E-03	5.4976E-01	6.8977E+03	2.2471E+01
5.5187E+02	5.4160E-03	5.9447E-01	7.4585E+03	2.2466E+01
5.5200E+02	5.0717E-03	5.5667E-01	6.9843E+03	2.2461E+01
5.5213E+02	5.2284E-03	5.7388E-01	7.2002E+03	2.2456E+01
5.5256E+02	4.9469E-03	5.4298E-01	6.8125E+03	2.2438E+01
5.5265E+02	5.0723E-03	5.5674E-01	6.9852E+03	2.2434E+01
5.5275E+02	4.7592E-03	5.2238E-01	6.5541E+03	2.2430E+01
5.5298E+02	5.0414E-03	5.5335E-01	6.9426E+03	2.2421E+01
5.5321E+02	4.7910E-03	5.2587E-01	6.5978E+03	2.2412E+01
5.5337E+02	5.3236E-03	5.8433E-01	7.3313E+03	2.2405E+01
5.5360E+02	5.2926E-03	5.8092E-01	7.2885E+03	2.2396E+01
5.5373E+02	5.4493E-03	5.9812E-01	7.5044E+03	2.2391E+01
5.5379E+02	5.1048E-03	5.6031E-01	7.0299E+03	2.2388E+01
5.5428E+02	4.9487E-03	5.4317E-01	6.8150E+03	2.2369E+01
5.5441E+02	4.7610E-03	5.2257E-01	6.5565E+03	2.2363E+01
5.5454E+02	5.2935E-03	5.8102E-01	7.2898E+03	2.2358E+01
5.5473E+02	5.6069E-03	6.1542E-01	7.7214E+03	2.2350E+01
5.5490E+02	5.0120E-03	5.5012E-01	6.9022E+03	2.2344E+01
5.5503E+02	5.0748E-03	5.5701E-01	6.9886E+03	2.2338E+01
5.5509E+02	5.3881E-03	5.9140E-01	7.4200E+03	2.2336E+01
5.5522E+02	5.4821E-03	6.0172E-01	7.5496E+03	2.2331E+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)
5.5535E+02	5.8581E-03	6.4299E-01	8.0673E+03	2.2325E+01
5.5551E+02	5.4824E-03	6.0176E-01	7.5500E+03	2.2319E+01
5.5584E+02	5.2009E-03	5.7086E-01	7.1623E+03	2.2306E+01
5.5590E+02	1.4601E-02	1.6026E+00	2.0108E+04	2.2303E+01
6.0000E+02	1.2149E-02	1.3335E+00	1.6731E+04	2.0664E+01
7.0000E+02	8.3269E-03	9.1397E-01	1.1467E+04	1.7712E+01
8.0000E+02	5.9568E-03	6.5383E-01	8.2033E+03	1.5498E+01
9.0000E+02	4.4070E-03	4.8371E-01	6.0689E+03	1.3776E+01
1.0000E+03	3.3507E-03	3.6778E-01	4.6144E+03	1.2398E+01
1.2500E+03	1.8523E-03	2.0331E-01	2.5508E+03	9.9187E+00
1.5000E+03	1.1290E-03	1.2392E-01	1.5548E+03	8.2656E+00
1.7500E+03	7.3820E-04	8.1026E-02	1.0166E+03	7.0848E+00
2.0000E+03	5.0891E-04	5.5858E-02	7.0083E+02	6.1992E+00
2.2500E+03	3.6563E-04	4.0131E-02	5.0351E+02	5.5104E+00
2.5000E+03	2.7152E-04	2.9803E-02	3.7392E+02	4.9594E+00
2.7500E+03	2.0608E-04	2.2620E-02	2.8380E+02	4.5085E+00
3.0000E+03	1.6025E-04	1.7589E-02	2.2068E+02	4.1328E+00
3.5000E+03	1.0197E-04	1.1192E-02	1.4043E+02	3.5424E+00
4.0000E+03	6.8538E-05	7.5228E-03	9.4386E+01	3.0996E+00
4.5000E+03	4.8090E-05	5.2784E-03	6.6226E+01	2.7552E+00
5.0000E+03	3.4926E-05	3.8335E-03	4.8098E+01	2.4797E+00
6.0000E+03	1.9956E-05	2.1904E-03	2.7482E+01	2.0664E+00
7.0000E+03	1.2354E-05	1.3560E-03	1.7013E+01	1.7712E+00
8.0000E+03	8.1138E-06	8.9058E-04	1.1174E+01	1.5498E+00
9.0000E+03	5.5757E-06	6.1200E-04	7.6785E+00	1.3776E+00
1.0000E+04	3.8874E-06	4.2668E-04	5.3534E+00	1.2398E+00
1.2500E+04	1.9066E-06	2.0927E-04	2.6256E+00	9.9187E-01
1.5000E+04	1.0655E-06	1.1695E-04	1.4673E+00	8.2656E-01
1.7500E+04	6.5134E-07	7.1491E-05	8.9697E-01	7.0848E-01
2.0000E+04	4.2520E-07	4.6670E-05	5.8555E-01	6.1992E-01
2.2500E+04	2.9194E-07	3.2043E-05	4.0203E-01	5.5104E-01
2.5000E+04	2.0855E-07	2.2891E-05	2.8721E-01	4.9594E-01
2.7500E+04	1.5343E-07	1.6840E-05	2.1129E-01	4.5085E-01
3.0000E+04	1.1543E-07	1.2670E-05	1.5896E-01	4.1328E-01
3.5000E+04	6.9665E-08	7.6465E-06	9.5938E-02	3.5424E-01
4.0000E+04	4.4989E-08	4.9380E-06	6.1956E-02	3.0996E-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)
4.5000E+04	3.0590E-08	3.3576E-06	4.2127E-02	2.7552E-01
5.0000E+04	2.1665E-08	2.3779E-06	2.9835E-02	2.4797E-01
6.0000E+04	1.1925E-08	1.3089E-06	1.6423E-02	2.0664E-01
7.0000E+04	7.1991E-09	7.9018E-07	9.9140E-03	1.7712E-01
8.0000E+04	4.6471E-09	5.1007E-07	6.3997E-03	1.5498E-01
9.0000E+04	3.1561E-09	3.4642E-07	4.3464E-03	1.3776E-01
1.0000E+05	2.2316E-09	2.4494E-07	3.0732E-03	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

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

Here Z_{c} denotes the atomic number of constituent atoms and E is photon energy in eV. The quantity χ is given by

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

where $E_{\mathrm{K}} \;=\; 541.5$ eV for oxygen atoms in ozone.

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O_3
Photoabsorption Cross Section (Mb)
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^{0}
10^{1}
10^{2}
10^{3}
10^{4}
10^{5}
Photon Energy (eV)