

Nitrous Oxide (N₂O)

$Z = 22$

Molecular Mass : $M_A = 44.0128$

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

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

Table I. Integrated oscillator strength, f , for transitions below the IP.

Energy (eV)	f	λ (Å)
5.70 – 8.0	0.0015	2175.2 – 1549.8
8.0 – 9.0	0.0255	1549.8 – 1377.6
9.0 – 10.23	0.3780	1377.6 – 1212.0
10.23 – 11.80	0.3547	1212.0 – 1050.7
11.80 – 12.8898(IP)	0.2324	1050.7 – 961.88

Table II. Oscillator-strength density, df/dE , 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)
1.2890E+01	8.8566E-02	9.7211E+00	1.3301E+05	9.6188E+02
1.2911E+01	1.0872E-01	1.1933E+01	1.6327E+05	9.6027E+02
1.2923E+01	1.0162E-01	1.1154E+01	1.5262E+05	9.5939E+02
1.2934E+01	1.1683E-01	1.2824E+01	1.7546E+05	9.5858E+02
1.2937E+01	1.1577E-01	1.2707E+01	1.7386E+05	9.5837E+02
1.2946E+01	1.2567E-01	1.3793E+01	1.8873E+05	9.5769E+02
1.2951E+01	1.0654E-01	1.1694E+01	1.6001E+05	9.5732E+02
1.2956E+01	9.4507E-02	1.0373E+01	1.4193E+05	9.5696E+02
1.2963E+01	1.0157E-01	1.1149E+01	1.5255E+05	9.5644E+02
1.2980E+01	9.0586E-02	9.9428E+00	1.3604E+05	9.5518E+02
1.3003E+01	1.0047E-01	1.1028E+01	1.5089E+05	9.5349E+02
1.3021E+01	1.0045E-01	1.1026E+01	1.5086E+05	9.5216E+02
1.3047E+01	9.1569E-02	1.0051E+01	1.3752E+05	9.5030E+02
1.3055E+01	9.7581E-02	1.0711E+01	1.4655E+05	9.4973E+02
1.3099E+01	1.0248E-01	1.1249E+01	1.5391E+05	9.4655E+02
1.3124E+01	9.9615E-02	1.0934E+01	1.4960E+05	9.4469E+02
1.3156E+01	1.0560E-01	1.1590E+01	1.5859E+05	9.4242E+02
1.3175E+01	1.0133E-01	1.1122E+01	1.5218E+05	9.4109E+02
1.3198E+01	1.0732E-01	1.1780E+01	1.6118E+05	9.3945E+02

Table II. Oscillator-strength density, df/dE , 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)
1.3672E+01	4.1826E-01	4.5909E+01	6.2815E+05	9.0688E+02
1.3208E+01	1.1651E-01	1.2788E+01	1.7498E+05	9.3872E+02
1.3218E+01	1.1048E-01	1.2126E+01	1.6592E+05	9.3799E+02
1.3281E+01	1.1324E-01	1.2429E+01	1.7007E+05	9.3355E+02
1.3307E+01	1.1817E-01	1.2971E+01	1.7747E+05	9.3172E+02
1.3349E+01	1.2414E-01	1.3626E+01	1.8644E+05	9.2882E+02
1.3417E+01	1.3220E-01	1.4511E+01	1.9855E+05	9.2410E+02
1.3482E+01	1.4912E-01	1.6368E+01	2.2396E+05	9.1966E+02
1.3515E+01	1.4909E-01	1.6364E+01	2.2390E+05	9.1739E+02
1.3542E+01	1.5720E-01	1.7254E+01	2.3608E+05	9.1554E+02
1.3587E+01	1.7308E-01	1.8997E+01	2.5993E+05	9.1251E+02
1.3614E+01	1.7906E-01	1.9654E+01	2.6891E+05	9.1073E+02
1.3649E+01	1.8079E-01	1.9844E+01	2.7152E+05	9.0838E+02
1.3721E+01	2.0584E-01	2.2593E+01	3.0914E+05	9.0358E+02
1.3745E+01	2.0688E-01	2.2708E+01	3.1070E+05	9.0201E+02
1.3761E+01	2.1394E-01	2.3482E+01	3.2130E+05	9.0100E+02
1.3768E+01	2.2987E-01	2.5231E+01	3.4522E+05	9.0055E+02
1.3778E+01	2.2277E-01	2.4452E+01	3.3457E+05	8.9987E+02
1.3820E+01	2.4998E-01	2.7439E+01	3.7543E+05	8.9716E+02
1.3836E+01	2.5280E-01	2.7747E+01	3.7966E+05	8.9611E+02
1.3863E+01	2.6976E-01	2.9609E+01	4.0513E+05	8.9434E+02
1.3890E+01	3.5291E-01	3.8735E+01	5.3000E+05	8.9263E+02
1.3905E+01	4.4314E-01	4.8639E+01	6.6552E+05	8.9166E+02
1.3918E+01	2.9766E-01	3.2672E+01	4.4704E+05	8.9081E+02
1.3929E+01	2.3289E-01	2.5562E+01	3.4976E+05	8.9014E+02
1.3951E+01	2.1375E-01	2.3461E+01	3.2101E+05	8.8868E+02
1.3963E+01	2.2683E-01	2.4897E+01	3.4066E+05	8.8792E+02
1.3976E+01	2.4770E-01	2.7188E+01	3.7200E+05	8.8711E+02
1.3982E+01	2.8273E-01	3.1033E+01	4.2461E+05	8.8674E+02
1.3995E+01	3.1280E-01	3.4334E+01	4.6978E+05	8.8593E+02
1.4007E+01	2.5864E-01	2.8389E+01	3.8843E+05	8.8513E+02
1.4020E+01	2.1863E-01	2.3997E+01	3.2835E+05	8.8432E+02
1.4036E+01	2.0870E-01	2.2907E+01	3.1344E+05	8.8335E+02
1.4063E+01	2.5858E-01	2.8382E+01	3.8835E+05	8.8165E+02
1.4073E+01	2.6459E-01	2.9042E+01	3.9737E+05	8.8098E+02
1.4088E+01	2.1149E-01	2.3213E+01	3.1762E+05	8.8009E+02

Table II. Oscillator-strength density, df/dE , 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)
1.4117E+01	2.0154E-01	2.2121E+01	3.0268E+05	8.7827E+02
1.4129E+01	2.2065E-01	2.4218E+01	3.3137E+05	8.7751E+02
1.4152E+01	2.3549E-01	2.5847E+01	3.5366E+05	8.7612E+02
1.4174E+01	2.2449E-01	2.4640E+01	3.3715E+05	8.7472E+02
1.4198E+01	2.4146E-01	2.6503E+01	3.6263E+05	8.7323E+02
1.4210E+01	2.6658E-01	2.9260E+01	4.0036E+05	8.7249E+02
1.4233E+01	2.2656E-01	2.4868E+01	3.4026E+05	8.7109E+02
1.4243E+01	2.3150E-01	2.5410E+01	3.4768E+05	8.7051E+02
1.4257E+01	2.1131E-01	2.3194E+01	3.1735E+05	8.6963E+02
1.4269E+01	2.1130E-01	2.3193E+01	3.1734E+05	8.6890E+02
1.4276E+01	2.2722E-01	2.4940E+01	3.4125E+05	8.6845E+02
1.4302E+01	2.3428E-01	2.5715E+01	3.5185E+05	8.6689E+02
1.4317E+01	2.2117E-01	2.4275E+01	3.3215E+05	8.6600E+02
1.4328E+01	2.2930E-01	2.5168E+01	3.4437E+05	8.6535E+02
1.4356E+01	2.3139E-01	2.5398E+01	3.4751E+05	8.6365E+02
1.4371E+01	2.5014E-01	2.7456E+01	3.7567E+05	8.6276E+02
1.4385E+01	2.3030E-01	2.5278E+01	3.4588E+05	8.6188E+02
1.4393E+01	2.4233E-01	2.6599E+01	3.6394E+05	8.6143E+02
1.4402E+01	2.3312E-01	2.5587E+01	3.5010E+05	8.6091E+02
1.4423E+01	2.6142E-01	2.8693E+01	3.9260E+05	8.5965E+02
1.4471E+01	2.6632E-01	2.9232E+01	3.9997E+05	8.5678E+02
1.4480E+01	2.5322E-01	2.7793E+01	3.8029E+05	8.5626E+02
1.4497E+01	2.6736E-01	2.9346E+01	4.0153E+05	8.5522E+02
1.4505E+01	2.6027E-01	2.8568E+01	3.9089E+05	8.5477E+02
1.4523E+01	2.7122E-01	2.9770E+01	4.0733E+05	8.5368E+02
1.4578E+01	2.7130E-01	2.9778E+01	4.0744E+05	8.5046E+02
1.4598E+01	2.8157E-01	3.0905E+01	4.2287E+05	8.4931E+02
1.4617E+01	3.5407E-01	3.8863E+01	5.3175E+05	8.4820E+02
1.4636E+01	3.1441E-01	3.4510E+01	4.7219E+05	8.4709E+02
1.4644E+01	3.1715E-01	3.4811E+01	4.7630E+05	8.4663E+02
1.4662E+01	3.0074E-01	3.3009E+01	4.5166E+05	8.4561E+02
1.4695E+01	3.1306E-01	3.4362E+01	4.7017E+05	8.4372E+02
1.4737E+01	4.2045E-01	4.6149E+01	6.3145E+05	8.4132E+02
1.4763E+01	4.8748E-01	5.3506E+01	7.3211E+05	8.3984E+02
1.4764E+01	5.1552E-01	5.6584E+01	7.7423E+05	8.3975E+02
1.4775E+01	5.2510E-01	5.7635E+01	7.8861E+05	8.3915E+02

Table II. Oscillator-strength density, df/dE , 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)
1.4796E+01	4.4236E-01	4.8554E+01	6.6435E+05	8.3795E+02
1.4801E+01	4.6082E-01	5.0580E+01	6.9208E+05	8.3767E+02
1.4813E+01	7.6858E-01	8.4360E+01	1.1543E+06	8.3698E+02
1.4823E+01	1.0565E+00	1.1596E+02	1.5867E+06	8.3643E+02
1.4830E+01	1.1057E+00	1.2137E+02	1.6606E+06	8.3606E+02
1.4846E+01	9.2315E-01	1.0133E+02	1.3864E+06	8.3513E+02
1.4859E+01	8.3084E-01	9.1193E+01	1.2478E+06	8.3440E+02
1.4868E+01	9.0059E-01	9.8850E+01	1.3525E+06	8.3389E+02
1.4876E+01	5.8942E-01	6.4696E+01	8.8521E+05	8.3347E+02
1.4885E+01	3.5896E-01	3.9400E+01	5.3910E+05	8.3296E+02
1.4912E+01	3.4051E-01	3.7374E+01	5.1138E+05	8.3144E+02
1.4942E+01	3.3094E-01	3.6324E+01	4.9702E+05	8.2978E+02
1.4950E+01	3.5556E-01	3.9027E+01	5.3399E+05	8.2932E+02
1.4966E+01	3.0222E-01	3.3172E+01	4.5389E+05	8.2844E+02
1.4988E+01	4.0960E-01	4.4959E+01	6.1515E+05	8.2724E+02
1.4997E+01	4.4996E-01	4.9388E+01	6.7576E+05	8.2673E+02
1.5010E+01	4.6706E-01	5.1265E+01	7.0145E+05	8.2599E+02
1.5025E+01	4.5407E-01	4.9839E+01	6.8194E+05	8.2521E+02
1.5032E+01	4.3903E-01	4.8188E+01	6.5934E+05	8.2479E+02
1.5037E+01	4.4313E-01	4.8638E+01	6.6551E+05	8.2452E+02
1.5048E+01	3.8158E-01	4.1883E+01	5.7307E+05	8.2392E+02
1.5059E+01	3.8091E-01	4.1809E+01	5.7206E+05	8.2331E+02
1.5088E+01	3.3783E-01	3.7081E+01	5.0737E+05	8.2175E+02
1.5103E+01	3.4604E-01	3.7982E+01	5.1970E+05	8.2091E+02
1.5115E+01	3.4331E-01	3.7682E+01	5.1559E+05	8.2027E+02
1.5130E+01	3.1939E-01	3.5056E+01	4.7967E+05	8.1948E+02
1.5142E+01	3.2691E-01	3.5882E+01	4.9096E+05	8.1879E+02
1.5154E+01	3.4811E-01	3.8209E+01	5.2281E+05	8.1814E+02
1.5163E+01	3.8232E-01	4.1964E+01	5.7418E+05	8.1768E+02
1.5171E+01	4.3292E-01	4.7518E+01	6.5018E+05	8.1727E+02
1.5184E+01	2.8521E-01	3.1305E+01	4.2834E+05	8.1653E+02
1.5195E+01	2.9342E-01	3.2206E+01	4.4067E+05	8.1597E+02
1.5216E+01	2.8044E-01	3.0781E+01	4.2117E+05	8.1482E+02
1.5229E+01	2.4693E-01	2.7103E+01	3.7084E+05	8.1413E+02
1.5247E+01	2.1206E-01	2.3275E+01	3.1847E+05	8.1316E+02
1.5261E+01	2.1685E-01	2.3801E+01	3.2567E+05	8.1242E+02

Table II. Oscillator-strength density, df/dE , 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)
1.5285E+01	2.0797E-01	2.2827E+01	3.1233E+05	8.1113E+02
1.5295E+01	2.1481E-01	2.3578E+01	3.2261E+05	8.1062E+02
1.5316E+01	2.1550E-01	2.3654E+01	3.2364E+05	8.0951E+02
1.5333E+01	2.0388E-01	2.2378E+01	3.0620E+05	8.0859E+02
1.5343E+01	2.1346E-01	2.3429E+01	3.2058E+05	8.0808E+02
1.5367E+01	1.9637E-01	2.1554E+01	2.9491E+05	8.0683E+02
1.5384E+01	1.9911E-01	2.1854E+01	2.9903E+05	8.0591E+02
1.5402E+01	1.9638E-01	2.1555E+01	2.9493E+05	8.0499E+02
1.5420E+01	2.2717E-01	2.4934E+01	3.4116E+05	8.0406E+02
1.5436E+01	3.3727E-01	3.7020E+01	5.0653E+05	8.0323E+02
1.5452E+01	2.3949E-01	2.6287E+01	3.5967E+05	8.0240E+02
1.5463E+01	2.0735E-01	2.2759E+01	3.1140E+05	8.0180E+02
1.5475E+01	2.2308E-01	2.4485E+01	3.3503E+05	8.0120E+02
1.5490E+01	2.2309E-01	2.4486E+01	3.3504E+05	8.0042E+02
1.5511E+01	3.7423E-01	4.1076E+01	5.6203E+05	7.9931E+02
1.5523E+01	6.3617E-01	6.9826E+01	9.5541E+05	7.9871E+02
1.5535E+01	8.2902E-01	9.0995E+01	1.2451E+06	7.9811E+02
1.5547E+01	6.5396E-01	7.1779E+01	9.8213E+05	7.9746E+02
1.5551E+01	6.9773E-01	7.6584E+01	1.0479E+06	7.9728E+02
1.5559E+01	4.2623E-01	4.6783E+01	6.4012E+05	7.9686E+02
1.5578E+01	2.8125E-01	3.0870E+01	4.2238E+05	7.9589E+02
1.5587E+01	2.6689E-01	2.9294E+01	4.0082E+05	7.9543E+02
1.5601E+01	3.3665E-01	3.6951E+01	5.0559E+05	7.9474E+02
1.5618E+01	2.2176E-01	2.4341E+01	3.3305E+05	7.9386E+02
1.5636E+01	1.9304E-01	2.1189E+01	2.8992E+05	7.9294E+02
1.5646E+01	2.0810E-01	2.2841E+01	3.1253E+05	7.9243E+02
1.5663E+01	2.5939E-01	2.8471E+01	3.8956E+05	7.9155E+02
1.5671E+01	3.7566E-01	4.1233E+01	5.6417E+05	7.9118E+02
1.5674E+01	3.6677E-01	4.0257E+01	5.5083E+05	7.9100E+02
1.5678E+01	3.7429E-01	4.1083E+01	5.6212E+05	7.9081E+02
1.5686E+01	5.5211E-01	6.0600E+01	8.2917E+05	7.9040E+02
1.5695E+01	7.5523E-01	8.2895E+01	1.1342E+06	7.8994E+02
1.5707E+01	4.2627E-01	4.6788E+01	6.4019E+05	7.8934E+02
1.5713E+01	3.7225E-01	4.0859E+01	5.5906E+05	7.8906E+02
1.5717E+01	4.0234E-01	4.4161E+01	6.0425E+05	7.8887E+02
1.5730E+01	2.6146E-01	2.8698E+01	3.9267E+05	7.8818E+02

Table II. Oscillator-strength density, df/dE , 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)
1.5741E+01	2.0471E-01	2.2469E+01	3.0744E+05	7.8763E+02
1.5750E+01	2.1360E-01	2.3445E+01	3.2079E+05	7.8721E+02
1.5770E+01	1.8488E-01	2.0293E+01	2.7766E+05	7.8620E+02
1.5779E+01	1.8420E-01	2.0218E+01	2.7664E+05	7.8573E+02
1.5784E+01	2.0541E-01	2.2546E+01	3.0848E+05	7.8550E+02
1.5792E+01	3.5176E-01	3.8610E+01	5.2829E+05	7.8509E+02
1.5807E+01	2.2115E-01	2.4273E+01	3.3213E+05	7.8435E+02
1.5817E+01	2.7996E-01	3.0729E+01	4.2046E+05	7.8389E+02
1.5827E+01	4.5983E-01	5.0471E+01	6.9058E+05	7.8338E+02
1.5834E+01	6.6363E-01	7.2840E+01	9.9665E+05	7.8301E+02
1.5841E+01	1.1916E+00	1.3079E+02	1.7895E+06	7.8269E+02
1.5857E+01	6.8552E-01	7.5243E+01	1.0295E+06	7.8190E+02
1.5872E+01	3.1965E-01	3.5085E+01	4.8006E+05	7.8116E+02
1.5891E+01	2.6768E-01	2.9380E+01	4.0200E+05	7.8024E+02
1.5902E+01	2.9572E-01	3.2459E+01	4.4413E+05	7.7969E+02
1.5911E+01	3.0461E-01	3.3434E+01	4.5747E+05	7.7922E+02
1.5916E+01	3.3265E-01	3.6512E+01	4.9958E+05	7.7899E+02
1.5924E+01	2.6701E-01	2.9307E+01	4.0100E+05	7.7862E+02
1.5932E+01	2.5469E-01	2.7955E+01	3.8250E+05	7.7821E+02
1.5941E+01	2.8205E-01	3.0958E+01	4.2359E+05	7.7779E+02
1.5951E+01	4.1678E-01	4.5746E+01	6.2594E+05	7.7729E+02
1.5960E+01	5.5972E-01	6.1436E+01	8.4061E+05	7.7682E+02
1.5974E+01	4.4415E-01	4.8751E+01	6.6704E+05	7.7618E+02
1.5984E+01	5.9597E-01	6.5414E+01	8.9504E+05	7.7567E+02
1.5995E+01	4.6536E-01	5.1078E+01	6.9888E+05	7.7516E+02
1.6002E+01	6.8557E-01	7.5249E+01	1.0296E+06	7.7479E+02
1.6009E+01	9.3652E-01	1.0279E+02	1.4065E+06	7.7447E+02
1.6027E+01	4.6126E-01	5.0628E+01	6.9273E+05	7.7359E+02
1.6035E+01	2.9781E-01	3.2688E+01	4.4726E+05	7.7322E+02
1.6049E+01	2.1712E-01	2.3831E+01	3.2607E+05	7.7253E+02
1.6057E+01	2.4242E-01	2.6609E+01	3.6408E+05	7.7216E+02
1.6066E+01	1.9387E-01	2.1279E+01	2.9116E+05	7.7170E+02
1.6084E+01	2.4928E-01	2.7361E+01	3.7437E+05	7.7087E+02
1.6092E+01	3.5596E-01	3.9071E+01	5.3459E+05	7.7045E+02
1.6098E+01	5.0095E-01	5.4985E+01	7.5234E+05	7.7018E+02
1.6107E+01	4.0316E-01	4.4251E+01	6.0547E+05	7.6976E+02

Table II. Oscillator-strength density, df/dE , 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)
1.6118E+01	6.4731E-01	7.1049E+01	9.7215E+05	7.6925E+02
1.6127E+01	3.9359E-01	4.3201E+01	5.9111E+05	7.6879E+02
1.6131E+01	2.6092E-01	2.8638E+01	3.9185E+05	7.6861E+02
1.6136E+01	2.3356E-01	2.5636E+01	3.5077E+05	7.6837E+02
1.6148E+01	3.8607E-01	4.2375E+01	5.7981E+05	7.6782E+02
1.6160E+01	2.9034E-01	3.1868E+01	4.3604E+05	7.6722E+02
1.6167E+01	4.6131E-01	5.0633E+01	6.9280E+05	7.6690E+02
1.6172E+01	4.7157E-01	5.1760E+01	7.0821E+05	7.6667E+02
1.6176E+01	4.6268E-01	5.0784E+01	6.9487E+05	7.6648E+02
1.6184E+01	5.7757E-01	6.3395E+01	8.6741E+05	7.6607E+02
1.6190E+01	4.5379E-01	4.9809E+01	6.8152E+05	7.6579E+02
1.6196E+01	2.9718E-01	3.2619E+01	4.4632E+05	7.6551E+02
1.6201E+01	2.2743E-01	2.4962E+01	3.4155E+05	7.6528E+02
1.6211E+01	1.8092E-01	1.9858E+01	2.7172E+05	7.6482E+02
1.6222E+01	3.1703E-01	3.4797E+01	4.7612E+05	7.6431E+02
1.6229E+01	4.5723E-01	5.0186E+01	6.8668E+05	7.6399E+02
1.6244E+01	2.4454E-01	2.6841E+01	3.6726E+05	7.6325E+02
1.6250E+01	2.8557E-01	3.1345E+01	4.2888E+05	7.6297E+02
1.6253E+01	3.9910E-01	4.3806E+01	5.9938E+05	7.6283E+02
1.6261E+01	5.0921E-01	5.5891E+01	7.6474E+05	7.6247E+02
1.6269E+01	3.4576E-01	3.7951E+01	5.1928E+05	7.6210E+02
1.6274E+01	2.7395E-01	3.0070E+01	4.1143E+05	7.6187E+02
1.6278E+01	4.0253E-01	4.4182E+01	6.0453E+05	7.6168E+02
1.6284E+01	5.5025E-01	6.0396E+01	8.2638E+05	7.6140E+02
1.6297E+01	2.8970E-01	3.1797E+01	4.3507E+05	7.6080E+02
1.6304E+01	3.5262E-01	3.8704E+01	5.2957E+05	7.6043E+02
1.6310E+01	3.2526E-01	3.5701E+01	4.8848E+05	7.6016E+02
1.6316E+01	3.6493E-01	4.0055E+01	5.4807E+05	7.5988E+02
1.6323E+01	3.3142E-01	3.6377E+01	4.9774E+05	7.5956E+02
1.6336E+01	4.1417E-01	4.5460E+01	6.2202E+05	7.5896E+02
1.6342E+01	3.8613E-01	4.2383E+01	5.7991E+05	7.5868E+02
1.6349E+01	4.4359E-01	4.8688E+01	6.6619E+05	7.5836E+02
1.6360E+01	3.3075E-01	3.6303E+01	4.9672E+05	7.5785E+02
1.6372E+01	3.0955E-01	3.3977E+01	4.6489E+05	7.5729E+02
1.6378E+01	3.2323E-01	3.5478E+01	4.8544E+05	7.5702E+02
1.6384E+01	4.0598E-01	4.4561E+01	6.0971E+05	7.5674E+02

Table II. Oscillator-strength density, df/dE , 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)
1.6390E+01	4.0051E-01	4.3961E+01	6.0150E+05	7.5646E+02
1.6397E+01	4.3061E-01	4.7264E+01	6.4670E+05	7.5614E+02
1.6409E+01	3.1777E-01	3.4879E+01	4.7724E+05	7.5559E+02
1.6414E+01	3.3965E-01	3.7281E+01	5.1010E+05	7.5536E+02
1.6419E+01	4.1010E-01	4.5013E+01	6.1589E+05	7.5512E+02
1.6423E+01	4.0326E-01	4.4262E+01	6.0563E+05	7.5494E+02
1.6426E+01	4.1967E-01	4.6064E+01	6.3027E+05	7.5480E+02
1.6439E+01	3.3897E-01	3.7206E+01	5.0908E+05	7.5420E+02
1.6445E+01	3.9301E-01	4.3137E+01	5.9023E+05	7.5392E+02
1.6450E+01	3.9916E-01	4.3813E+01	5.9948E+05	7.5369E+02
1.6461E+01	3.4104E-01	3.7432E+01	5.1218E+05	7.5319E+02
1.6470E+01	3.9917E-01	4.3814E+01	5.9949E+05	7.5277E+02
1.6477E+01	3.7455E-01	4.1111E+01	5.6252E+05	7.5245E+02
1.6482E+01	4.0054E-01	4.3964E+01	6.0154E+05	7.5222E+02
1.6494E+01	4.0055E-01	4.3965E+01	6.0155E+05	7.5171E+02
1.6505E+01	3.7115E-01	4.0737E+01	5.5740E+05	7.5120E+02
1.6514E+01	3.5884E-01	3.9387E+01	5.3892E+05	7.5078E+02
1.6525E+01	3.5989E-01	3.9502E+01	5.4049E+05	7.5029E+02
1.6536E+01	3.8429E-01	4.2180E+01	5.7713E+05	7.4978E+02
1.6558E+01	3.7172E-01	4.0800E+01	5.5826E+05	7.4880E+02
1.6571E+01	3.6990E-01	4.0601E+01	5.5553E+05	7.4819E+02
1.6577E+01	3.9700E-01	4.3575E+01	5.9623E+05	7.4792E+02
1.6588E+01	4.0531E-01	4.4488E+01	6.0871E+05	7.4744E+02
1.6595E+01	3.8921E-01	4.2720E+01	5.8452E+05	7.4711E+02
1.6606E+01	3.8918E-01	4.2717E+01	5.8448E+05	7.4661E+02
1.6618E+01	3.7307E-01	4.0948E+01	5.6028E+05	7.4610E+02
1.6625E+01	3.7394E-01	4.1044E+01	5.6159E+05	7.4577E+02
1.6634E+01	3.6230E-01	3.9767E+01	5.4412E+05	7.4535E+02
1.6658E+01	3.6463E-01	4.0022E+01	5.4760E+05	7.4431E+02
1.6666E+01	3.7741E-01	4.1425E+01	5.6681E+05	7.4392E+02
1.6703E+01	4.0176E-01	4.4097E+01	6.0337E+05	7.4228E+02
1.6737E+01	3.6355E-01	3.9903E+01	5.4599E+05	7.4076E+02
1.6778E+01	3.8043E-01	4.1757E+01	5.7134E+05	7.3895E+02
1.6797E+01	3.8128E-01	4.1849E+01	5.7261E+05	7.3812E+02
1.6816E+01	3.8868E-01	4.2662E+01	5.8373E+05	7.3731E+02
1.6850E+01	3.6924E-01	4.0528E+01	5.5454E+05	7.3582E+02

Table II. Oscillator-strength density, df/dE , 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)
1.6901E+01	3.6912E-01	4.0515E+01	5.5436E+05	7.3361E+02
1.6919E+01	3.8666E-01	4.2440E+01	5.8069E+05	7.3282E+02
1.6931E+01	3.9258E-01	4.3090E+01	5.8959E+05	7.3228E+02
1.6972E+01	3.6568E-01	4.0137E+01	5.4918E+05	7.3054E+02
1.6983E+01	3.6476E-01	4.0036E+01	5.4780E+05	7.3003E+02
1.6996E+01	3.7307E-01	4.0948E+01	5.6028E+05	7.2948E+02
1.7007E+01	3.6977E-01	4.0586E+01	5.5533E+05	7.2903E+02
1.7019E+01	3.7391E-01	4.1041E+01	5.6155E+05	7.2852E+02
1.7032E+01	3.9086E-01	4.2901E+01	5.8701E+05	7.2794E+02
1.7063E+01	3.7649E-01	4.1324E+01	5.6543E+05	7.2663E+02
1.7079E+01	3.7467E-01	4.1124E+01	5.6268E+05	7.2593E+02
1.7091E+01	3.6868E-01	4.0467E+01	5.5370E+05	7.2542E+02
1.7114E+01	3.7131E-01	4.0756E+01	5.5765E+05	7.2445E+02
1.7133E+01	3.8616E-01	4.2386E+01	5.7995E+05	7.2366E+02
1.7155E+01	3.8879E-01	4.2674E+01	5.8390E+05	7.2275E+02
1.7167E+01	3.8281E-01	4.2018E+01	5.7491E+05	7.2223E+02
1.7184E+01	3.6847E-01	4.0444E+01	5.5338E+05	7.2151E+02
1.7198E+01	3.7530E-01	4.1193E+01	5.6363E+05	7.2094E+02
1.7206E+01	3.7676E-01	4.1354E+01	5.6583E+05	7.2057E+02
1.7214E+01	3.7109E-01	4.0731E+01	5.5731E+05	7.2026E+02
1.7232E+01	3.7760E-01	4.1446E+01	5.6709E+05	7.1948E+02
1.7246E+01	3.7519E-01	4.1181E+01	5.6346E+05	7.1893E+02
1.7270E+01	3.9032E-01	4.2842E+01	5.8620E+05	7.1790E+02
1.7281E+01	3.8673E-01	4.2448E+01	5.8080E+05	7.1747E+02
1.7293E+01	3.7418E-01	4.1071E+01	5.6196E+05	7.1696E+02
1.7313E+01	3.8338E-01	4.2080E+01	5.7577E+05	7.1615E+02
1.7334E+01	3.7410E-01	4.1061E+01	5.6183E+05	7.1527E+02
1.7352E+01	3.8418E-01	4.2168E+01	5.7698E+05	7.1454E+02
1.7387E+01	3.9006E-01	4.2814E+01	5.8581E+05	7.1308E+02
1.7405E+01	3.7989E-01	4.1698E+01	5.7054E+05	7.1235E+02
1.7433E+01	3.8311E-01	4.2050E+01	5.7536E+05	7.1120E+02
1.7445E+01	3.8726E-01	4.2506E+01	5.8160E+05	7.1071E+02
1.7457E+01	3.8812E-01	4.2601E+01	5.8289E+05	7.1023E+02
1.7472E+01	3.9643E-01	4.3513E+01	5.9538E+05	7.0963E+02
1.7501E+01	4.0054E-01	4.3964E+01	6.0154E+05	7.0844E+02
1.7515E+01	4.0737E-01	4.4713E+01	6.1179E+05	7.0789E+02

Table II. Oscillator-strength density, df/dE , 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)
1.7529E+01	4.0048E-01	4.3957E+01	6.0146E+05	7.0732E+02
1.7553E+01	4.1979E-01	4.6077E+01	6.3045E+05	7.0634E+02
1.7563E+01	3.9117E-01	4.2935E+01	5.8747E+05	7.0595E+02
1.7568E+01	3.5064E-01	3.8486E+01	5.2660E+05	7.0572E+02
1.7575E+01	3.2710E-01	3.5902E+01	4.9124E+05	7.0544E+02
1.7590E+01	3.4583E-01	3.7958E+01	5.1937E+05	7.0484E+02
1.7619E+01	3.7258E-01	4.0894E+01	5.5954E+05	7.0368E+02
1.7634E+01	3.7761E-01	4.1447E+01	5.6710E+05	7.0311E+02
1.7655E+01	3.7250E-01	4.0886E+01	5.5943E+05	7.0228E+02
1.7675E+01	3.7663E-01	4.1340E+01	5.6564E+05	7.0147E+02
1.7701E+01	3.6913E-01	4.0516E+01	5.5437E+05	7.0044E+02
1.7710E+01	3.5720E-01	3.9206E+01	5.3645E+05	7.0008E+02
1.7719E+01	3.4839E-01	3.8240E+01	5.2322E+05	6.9972E+02
1.7742E+01	2.7335E-01	3.0003E+01	4.1053E+05	6.9882E+02
1.7758E+01	2.5643E-01	2.8146E+01	3.8511E+05	6.9819E+02
1.7773E+01	2.6888E-01	2.9513E+01	4.0382E+05	6.9759E+02
1.7806E+01	3.0785E-01	3.3790E+01	4.6234E+05	6.9632E+02
1.7831E+01	3.3117E-01	3.6350E+01	4.9736E+05	6.9533E+02
1.7843E+01	3.3756E-01	3.7051E+01	5.0696E+05	6.9486E+02
1.7862E+01	3.2767E-01	3.5966E+01	4.9211E+05	6.9413E+02
1.7911E+01	3.2577E-01	3.5757E+01	4.8925E+05	6.9224E+02
1.7951E+01	3.3759E-01	3.7054E+01	5.0700E+05	6.9067E+02
1.7969E+01	3.3951E-01	3.7265E+01	5.0989E+05	6.8998E+02
1.8007E+01	3.3313E-01	3.6565E+01	5.0031E+05	6.8854E+02
1.8041E+01	3.4209E-01	3.7548E+01	5.1375E+05	6.8725E+02
1.8163E+01	3.4052E-01	3.7375E+01	5.1140E+05	6.8262E+02
1.8185E+01	3.4851E-01	3.8253E+01	5.2341E+05	6.8178E+02
1.8228E+01	3.7279E-01	4.0918E+01	5.5986E+05	6.8019E+02
1.8247E+01	4.3443E-01	4.7683E+01	6.5244E+05	6.7946E+02
1.8267E+01	4.7244E-01	5.1856E+01	7.0952E+05	6.7873E+02
1.8297E+01	4.2901E-01	4.7089E+01	6.4430E+05	6.7763E+02
1.8309E+01	3.9995E-01	4.3899E+01	6.0066E+05	6.7716E+02
1.8347E+01	3.6387E-01	3.9939E+01	5.4648E+05	6.7576E+02
1.8429E+01	3.5942E-01	3.9451E+01	5.3979E+05	6.7277E+02
1.8451E+01	3.5304E-01	3.8751E+01	5.3021E+05	6.7198E+02
1.8497E+01	3.6934E-01	4.0540E+01	5.5469E+05	6.7028E+02

Table II. Oscillator-strength density, df/dE , 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)
1.8511E+01	3.8659E-01	4.2432E+01	5.8059E+05	6.6978E+02
1.8522E+01	4.3067E-01	4.7270E+01	6.4679E+05	6.6938E+02
1.8541E+01	5.5362E-01	6.0766E+01	8.3144E+05	6.6869E+02
1.8558E+01	6.6828E-01	7.3351E+01	1.0036E+06	6.6809E+02
1.8571E+01	5.7439E-01	6.3045E+01	8.6263E+05	6.6761E+02
1.8592E+01	4.7156E-01	5.1759E+01	7.0820E+05	6.6688E+02
1.8602E+01	5.4661E-01	5.9996E+01	8.2091E+05	6.6652E+02
1.8616E+01	4.0642E-01	4.4609E+01	6.1037E+05	6.6602E+02
1.8629E+01	3.7767E-01	4.1454E+01	5.6720E+05	6.6553E+02
1.8659E+01	3.6044E-01	3.9562E+01	5.4131E+05	6.6449E+02
1.8679E+01	3.5757E-01	3.9247E+01	5.3700E+05	6.6376E+02
1.8732E+01	3.3522E-01	3.6794E+01	5.0345E+05	6.6189E+02
1.8798E+01	3.3524E-01	3.6796E+01	5.0347E+05	6.5957E+02
1.8841E+01	3.5696E-01	3.9181E+01	5.3610E+05	6.5804E+02
1.8860E+01	3.4770E-01	3.8164E+01	5.2219E+05	6.5738E+02
1.8880E+01	3.6592E-01	4.0163E+01	5.4954E+05	6.5671E+02
1.8890E+01	3.0716E-01	3.3714E+01	4.6130E+05	6.5634E+02
1.8908E+01	3.2249E-01	3.5397E+01	4.8432E+05	6.5574E+02
1.8948E+01	3.2985E-01	3.6204E+01	4.9537E+05	6.5434E+02
1.8963E+01	3.1069E-01	3.4101E+01	4.6660E+05	6.5381E+02
1.8976E+01	2.7204E-01	2.9860E+01	4.0856E+05	6.5338E+02
1.8992E+01	2.9089E-01	3.1928E+01	4.3686E+05	6.5282E+02
1.9027E+01	3.0814E-01	3.3822E+01	4.6277E+05	6.5161E+02
1.9049E+01	3.0718E-01	3.3717E+01	4.6134E+05	6.5088E+02
1.9065E+01	3.1996E-01	3.5120E+01	4.8053E+05	6.5032E+02
1.9084E+01	3.5414E-01	3.8871E+01	5.3186E+05	6.4966E+02
1.9109E+01	4.4453E-01	4.8792E+01	6.6761E+05	6.4882E+02
1.9119E+01	4.3175E-01	4.7390E+01	6.4842E+05	6.4849E+02
1.9130E+01	4.4453E-01	4.8792E+01	6.6761E+05	6.4813E+02
1.9147E+01	3.6151E-01	3.9679E+01	5.4292E+05	6.4753E+02
1.9178E+01	3.2989E-01	3.6209E+01	4.9544E+05	6.4649E+02
1.9196E+01	3.4076E-01	3.7402E+01	5.1176E+05	6.4589E+02
1.9209E+01	3.6056E-01	3.9575E+01	5.4150E+05	6.4546E+02
1.9223E+01	4.1933E-01	4.6026E+01	6.2976E+05	6.4497E+02
1.9247E+01	5.2663E-01	5.7804E+01	7.9091E+05	6.4419E+02
1.9263E+01	4.4807E-01	4.9181E+01	6.7293E+05	6.4363E+02

Table II. Oscillator-strength density, df/dE , 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)
1.9267E+01	4.7426E-01	5.2055E+01	7.1226E+05	6.4351E+02
1.9279E+01	3.6696E-01	4.0278E+01	5.5111E+05	6.4310E+02
1.9298E+01	3.2449E-01	3.5616E+01	4.8732E+05	6.4247E+02
1.9320E+01	3.1172E-01	3.4214E+01	4.6814E+05	6.4174E+02
1.9362E+01	3.0981E-01	3.4005E+01	4.6528E+05	6.4034E+02
1.9378E+01	3.2802E-01	3.6003E+01	4.9262E+05	6.3981E+02
1.9387E+01	2.9545E-01	3.2428E+01	4.4371E+05	6.3951E+02
1.9400E+01	3.0918E-01	3.3936E+01	4.6434E+05	6.3908E+02
1.9417E+01	3.0822E-01	3.3831E+01	4.6290E+05	6.3854E+02
1.9432E+01	2.7821E-01	3.0536E+01	4.1782E+05	6.3804E+02
1.9439E+01	2.9099E-01	3.1939E+01	4.3701E+05	6.3781E+02
1.9452E+01	3.0472E-01	3.3447E+01	4.5764E+05	6.3738E+02
1.9471E+01	3.6061E-01	3.9581E+01	5.4158E+05	6.3677E+02
1.9486E+01	4.6729E-01	5.1290E+01	7.0178E+05	6.3628E+02
1.9508E+01	3.5072E-01	3.8496E+01	5.2673E+05	6.3555E+02
1.9517E+01	3.4242E-01	3.7584E+01	5.1426E+05	6.3525E+02
1.9527E+01	3.5711E-01	3.9197E+01	5.3632E+05	6.3495E+02
1.9538E+01	4.3089E-01	4.7295E+01	6.4712E+05	6.3458E+02
1.9551E+01	5.4938E-01	6.0300E+01	8.2507E+05	6.3415E+02
1.9563E+01	4.4175E-01	4.8487E+01	6.6343E+05	6.3378E+02
1.9569E+01	4.1206E-01	4.5228E+01	6.1884E+05	6.3359E+02
1.9580E+01	3.2615E-01	3.5798E+01	4.8982E+05	6.3323E+02
1.9596E+01	3.0539E-01	3.3520E+01	4.5865E+05	6.3269E+02
1.9623E+01	3.0923E-01	3.3941E+01	4.6441E+05	6.3183E+02
1.9635E+01	2.9646E-01	3.2539E+01	4.4523E+05	6.3146E+02
1.9653E+01	2.9102E-01	3.1943E+01	4.3707E+05	6.3086E+02
1.9667E+01	3.2360E-01	3.5519E+01	4.8600E+05	6.3043E+02
1.9679E+01	4.1654E-01	4.5720E+01	6.2557E+05	6.3002E+02
1.9695E+01	3.4246E-01	3.7588E+01	5.1431E+05	6.2953E+02
1.9702E+01	3.3351E-01	3.6607E+01	5.0088E+05	6.2929E+02
1.9708E+01	3.4629E-01	3.8009E+01	5.2007E+05	6.2910E+02
1.9723E+01	4.8713E-01	5.3468E+01	7.3159E+05	6.2862E+02
1.9741E+01	3.2171E-01	3.5311E+01	4.8315E+05	6.2806E+02
1.9746E+01	3.0638E-01	3.3628E+01	4.6012E+05	6.2789E+02
1.9769E+01	3.0383E-01	3.3349E+01	4.5630E+05	6.2716E+02
1.9779E+01	3.1629E-01	3.4716E+01	4.7501E+05	6.2686E+02

Table II. Oscillator-strength density, df/dE , 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)
1.9787E+01	3.3002E-01	3.6223E+01	4.9564E+05	6.2660E+02
1.9798E+01	4.1114E-01	4.5127E+01	6.1746E+05	6.2624E+02
1.9812E+01	3.5174E-01	3.8608E+01	5.2826E+05	6.2581E+02
1.9827E+01	4.3095E-01	4.7301E+01	6.4721E+05	6.2533E+02
1.9841E+01	3.3642E-01	3.6926E+01	5.0525E+05	6.2490E+02
1.9848E+01	3.1183E-01	3.4227E+01	4.6831E+05	6.2467E+02
1.9862E+01	3.2173E-01	3.5313E+01	4.8318E+05	6.2424E+02
1.9873E+01	3.7699E-01	4.1378E+01	5.6617E+05	6.2387E+02
1.9885E+01	3.7699E-01	4.1378E+01	5.6617E+05	6.2351E+02
1.9893E+01	3.9423E-01	4.3271E+01	5.9207E+05	6.2327E+02
1.9916E+01	3.1823E-01	3.4929E+01	4.7792E+05	6.2254E+02
1.9928E+01	3.6710E-01	4.0293E+01	5.5131E+05	6.2217E+02
1.9937E+01	3.7156E-01	4.0783E+01	5.5802E+05	6.2187E+02
1.9955E+01	3.2558E-01	3.5736E+01	4.8897E+05	6.2131E+02
1.9971E+01	3.7317E-01	4.0960E+01	5.6044E+05	6.2082E+02
1.9984E+01	3.4539E-01	3.7911E+01	5.1872E+05	6.2041E+02
1.9996E+01	3.6711E-01	4.0294E+01	5.5133E+05	6.2004E+02
2.0008E+01	3.5977E-01	3.9489E+01	5.4031E+05	6.1968E+02
2.0017E+01	3.7318E-01	4.0961E+01	5.6045E+05	6.1938E+02
2.0038E+01	3.4987E-01	3.8402E+01	5.2544E+05	6.1875E+02
2.0113E+01	3.5723E-01	3.9210E+01	5.3650E+05	6.1645E+02
2.0151E+01	3.4702E-01	3.8089E+01	5.2116E+05	6.1529E+02
2.0190E+01	3.4206E-01	3.7545E+01	5.1372E+05	6.1409E+02
2.0280E+01	3.4071E-01	3.7397E+01	5.1169E+05	6.1136E+02
2.0790E+01	3.3671E-01	3.6958E+01	5.0568E+05	5.9636E+02
2.1310E+01	3.3501E-01	3.6771E+01	5.0313E+05	5.8181E+02
2.1830E+01	3.2801E-01	3.6003E+01	4.9262E+05	5.6795E+02
2.2340E+01	3.2031E-01	3.5158E+01	4.8105E+05	5.5499E+02
2.2860E+01	3.1781E-01	3.4883E+01	4.7730E+05	5.4236E+02
2.3370E+01	3.0621E-01	3.3610E+01	4.5988E+05	5.3053E+02
2.3890E+01	2.9871E-01	3.2787E+01	4.4861E+05	5.1898E+02
2.4400E+01	2.8751E-01	3.1557E+01	4.3179E+05	5.0813E+02
2.4920E+01	2.7981E-01	3.0712E+01	4.2023E+05	4.9753E+02
2.5430E+01	2.7791E-01	3.0504E+01	4.1737E+05	4.8755E+02
2.5560E+01	2.7521E-01	3.0207E+01	4.1332E+05	4.8507E+02
2.5950E+01	2.6740E-01	2.9350E+01	4.0158E+05	4.7778E+02

Table II. Oscillator-strength density, df/dE , 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)
2.6460E+01	2.6699E-01	2.9306E+01	4.0098E+05	4.6857E+02
2.6980E+01	2.6589E-01	2.9185E+01	3.9933E+05	4.5954E+02
2.7490E+01	2.6790E-01	2.9404E+01	4.0233E+05	4.5102E+02
2.8010E+01	2.6579E-01	2.9174E+01	3.9918E+05	4.4264E+02
2.8530E+01	2.6649E-01	2.9251E+01	4.0023E+05	4.3457E+02
2.9040E+01	2.6760E-01	2.9372E+01	4.0188E+05	4.2694E+02
2.9560E+01	2.6189E-01	2.8745E+01	3.9331E+05	4.1943E+02
3.0070E+01	2.5808E-01	2.8328E+01	3.8760E+05	4.1232E+02
3.0590E+01	2.4988E-01	2.7427E+01	3.7527E+05	4.0531E+02
3.1100E+01	2.5398E-01	2.7877E+01	3.8143E+05	3.9866E+02
3.1620E+01	2.5228E-01	2.7690E+01	3.7888E+05	3.9211E+02
3.2130E+01	2.4357E-01	2.6734E+01	3.6580E+05	3.8588E+02
3.2650E+01	2.4507E-01	2.6899E+01	3.6805E+05	3.7974E+02
3.3160E+01	2.3886E-01	2.6218E+01	3.5873E+05	3.7390E+02
3.3680E+01	2.3876E-01	2.6207E+01	3.5858E+05	3.6812E+02
3.4190E+01	2.3736E-01	2.6053E+01	3.5648E+05	3.6263E+02
3.4710E+01	2.3015E-01	2.5262E+01	3.4565E+05	3.5720E+02
3.5220E+01	2.3055E-01	2.5306E+01	3.4625E+05	3.5203E+02
3.5740E+01	2.2705E-01	2.4921E+01	3.4099E+05	3.4691E+02
3.6260E+01	2.2345E-01	2.4526E+01	3.3558E+05	3.4193E+02
3.6770E+01	2.1614E-01	2.3724E+01	3.2460E+05	3.3719E+02
3.7290E+01	2.0833E-01	2.2866E+01	3.1288E+05	3.3249E+02
3.7800E+01	2.0202E-01	2.2174E+01	3.0340E+05	3.2800E+02
3.8320E+01	1.9171E-01	2.1042E+01	2.8792E+05	3.2355E+02
3.8830E+01	1.8941E-01	2.0790E+01	2.8446E+05	3.1930E+02
3.9350E+01	1.8841E-01	2.0680E+01	2.8296E+05	3.1508E+02
3.9860E+01	1.8320E-01	2.0108E+01	2.7514E+05	3.1105E+02
4.0030E+01	1.8410E-01	2.0207E+01	2.7649E+05	3.0973E+02
4.1070E+01	1.7459E-01	1.9163E+01	2.6221E+05	3.0189E+02
4.2100E+01	1.7019E-01	1.8680E+01	2.5559E+05	2.9450E+02
4.3130E+01	1.6268E-01	1.7856E+01	2.4432E+05	2.8747E+02
4.4160E+01	1.5707E-01	1.7241E+01	2.3590E+05	2.8076E+02
4.5200E+01	1.5267E-01	1.6757E+01	2.2928E+05	2.7430E+02
4.6230E+01	1.4786E-01	1.6230E+01	2.2206E+05	2.6819E+02
4.7260E+01	1.4546E-01	1.5966E+01	2.1846E+05	2.6234E+02
4.8300E+01	1.4396E-01	1.5801E+01	2.1620E+05	2.5670E+02

Table II. Oscillator-strength density, df/dE , 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)
4.9330E+01	1.4046E-01	1.5416E+01	2.1094E+05	2.5134E+02
5.0360E+01	1.3865E-01	1.5219E+01	2.0823E+05	2.4620E+02
5.1390E+01	1.3595E-01	1.4922E+01	2.0417E+05	2.4126E+02
5.2430E+01	1.3225E-01	1.4515E+01	1.9861E+05	2.3648E+02
5.3460E+01	1.3014E-01	1.4285E+01	1.9545E+05	2.3192E+02
5.4490E+01	1.2854E-01	1.4109E+01	1.9305E+05	2.2754E+02
5.5520E+01	1.2514E-01	1.3735E+01	1.8794E+05	2.2331E+02
5.6560E+01	1.2213E-01	1.3406E+01	1.8343E+05	2.1921E+02
5.7590E+01	1.1893E-01	1.3054E+01	1.7861E+05	2.1529E+02
5.8620E+01	1.1643E-01	1.2779E+01	1.7486E+05	2.1150E+02
5.9660E+01	1.1072E-01	1.2153E+01	1.6629E+05	2.0782E+02
6.0690E+01	1.0802E-01	1.1856E+01	1.6223E+05	2.0429E+02
6.1720E+01	1.0391E-01	1.1406E+01	1.5606E+05	2.0088E+02
6.2750E+01	1.0141E-01	1.1131E+01	1.5230E+05	1.9758E+02
6.3790E+01	9.7408E-02	1.0692E+01	1.4629E+05	1.9436E+02
6.4820E+01	9.2502E-02	1.0153E+01	1.3892E+05	1.9127E+02
6.5850E+01	8.9499E-02	9.8235E+00	1.3441E+05	1.8828E+02
6.6890E+01	8.5795E-02	9.4169E+00	1.2885E+05	1.8536E+02
6.7920E+01	8.3492E-02	9.1642E+00	1.2539E+05	1.8254E+02
6.8950E+01	8.0489E-02	8.8345E+00	1.2088E+05	1.7982E+02
6.9980E+01	7.7385E-02	8.4939E+00	1.1622E+05	1.7717E+02
7.1020E+01	7.5884E-02	8.3291E+00	1.1396E+05	1.7458E+02
7.2050E+01	7.2780E-02	7.9884E+00	1.0930E+05	1.7208E+02
7.3080E+01	7.1379E-02	7.8346E+00	1.0720E+05	1.6966E+02
7.4110E+01	6.8275E-02	7.4940E+00	1.0254E+05	1.6730E+02
7.5150E+01	6.5773E-02	7.2193E+00	9.8779E+04	1.6498E+02
7.6180E+01	6.4171E-02	7.0435E+00	9.6373E+04	1.6275E+02
7.7210E+01	6.2769E-02	6.8896E+00	9.4269E+04	1.6058E+02
7.8250E+01	5.9265E-02	6.5050E+00	8.9006E+04	1.5845E+02
7.9280E+01	5.8264E-02	6.3951E+00	8.7503E+04	1.5639E+02
8.0050E+01	5.6763E-02	6.2303E+00	8.5248E+04	1.5488E+02
8.2100E+01	5.3759E-02	5.9007E+00	8.0737E+04	1.5102E+02
8.4150E+01	5.0856E-02	5.5820E+00	7.6377E+04	1.4734E+02
8.6200E+01	4.8554E-02	5.3293E+00	7.2919E+04	1.4383E+02
8.8250E+01	4.5851E-02	5.0326E+00	6.8860E+04	1.4049E+02
9.0300E+01	4.3748E-02	4.8019E+00	6.5702E+04	1.3730E+02

Table II. Oscillator-strength density, df/dE , 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)
9.2340E+01	4.1646E-02	4.5711E+00	6.2545E+04	1.3427E+02
9.4390E+01	3.9744E-02	4.3623E+00	5.9688E+04	1.3135E+02
9.6440E+01	3.7541E-02	4.1206E+00	5.6381E+04	1.2856E+02
9.8490E+01	3.6240E-02	3.9777E+00	5.4426E+04	1.2589E+02
1.0054E+02	3.4438E-02	3.7799E+00	5.1720E+04	1.2332E+02
1.0259E+02	3.3036E-02	3.6261E+00	4.9615E+04	1.2085E+02
1.0464E+02	3.0934E-02	3.3954E+00	4.6458E+04	1.1849E+02
1.0669E+02	2.9633E-02	3.2525E+00	4.4503E+04	1.1621E+02
1.0850E+02	2.8481E-02	3.1262E+00	4.2774E+04	1.1427E+02
1.2500E+02	2.1475E-02	2.3571E+00	3.2251E+04	9.9187E+01
1.5000E+02	1.4357E-02	1.5759E+00	2.1562E+04	8.2656E+01
1.7500E+02	1.0038E-02	1.1018E+00	1.5076E+04	7.0848E+01
2.0000E+02	7.2490E-03	7.9566E-01	1.0887E+04	6.1992E+01
2.2500E+02	5.3737E-03	5.8983E-01	8.0704E+03	5.5104E+01
2.5000E+02	4.0726E-03	4.4701E-01	6.1163E+03	4.9594E+01
2.7500E+02	3.1454E-03	3.4525E-01	4.7239E+03	4.5085E+01
3.0000E+02	2.4694E-03	2.7105E-01	3.7087E+03	4.1328E+01
3.5000E+02	1.5858E-03	1.7405E-01	2.3815E+03	3.5424E+01
3.8908E+02	1.2960E-03	1.4225E-01	1.9464E+03	3.1866E+01
3.9863E+02	3.7557E-03	4.1223E-01	5.6404E+03	3.1103E+01
3.9900E+02	9.4601E-03	1.0384E+00	1.4207E+04	3.1074E+01
3.9964E+02	1.8920E-02	2.0767E+00	2.8415E+04	3.1024E+01
4.0011E+02	2.8380E-02	3.1151E+00	4.2622E+04	3.0988E+01
4.0036E+02	4.1530E-02	4.5584E+00	6.2371E+04	3.0968E+01
4.0137E+02	1.5432E-01	1.6939E+01	2.3177E+05	3.0890E+01
4.0222E+02	4.1889E-02	4.5978E+00	6.2911E+04	3.0825E+01
4.0253E+02	2.8380E-02	3.1151E+00	4.2622E+04	3.0801E+01
4.0265E+02	1.8920E-02	2.0767E+00	2.8415E+04	3.0792E+01
4.0283E+02	1.1343E-02	1.2450E+00	1.7035E+04	3.0778E+01
4.0310E+02	1.2014E-02	1.3187E+00	1.8043E+04	3.0758E+01
4.0349E+02	1.8920E-02	2.0767E+00	2.8415E+04	3.0728E+01
4.0375E+02	2.8380E-02	3.1151E+00	4.2622E+04	3.0708E+01
4.0431E+02	4.1530E-02	4.5584E+00	6.2371E+04	3.0666E+01
4.0514E+02	1.7260E-01	1.8945E+01	2.5922E+05	3.0603E+01
4.0566E+02	4.2031E-02	4.6134E+00	6.3124E+04	3.0564E+01
4.0569E+02	1.8239E-02	2.0019E+00	2.7392E+04	3.0561E+01

Table II. Oscillator-strength density, df/dE , 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)
4.0624E+02	1.8438E-02	2.0237E+00	2.7690E+04	3.0520E+01
4.0651E+02	1.7624E-02	1.9344E+00	2.6469E+04	3.0500E+01
4.0725E+02	1.2241E-02	1.3436E+00	1.8384E+04	3.0444E+01
4.0764E+02	1.3575E-02	1.4900E+00	2.0388E+04	3.0415E+01
4.0822E+02	1.4417E-02	1.5824E+00	2.1652E+04	3.0372E+01
4.0871E+02	1.3254E-02	1.4547E+00	1.9905E+04	3.0335E+01
4.0912E+02	1.2147E-02	1.3332E+00	1.8242E+04	3.0305E+01
4.1000E+02	1.3093E-02	1.4371E+00	1.9663E+04	3.0240E+01
4.1082E+02	1.2374E-02	1.3582E+00	1.8583E+04	3.0180E+01
4.1160E+02	1.1598E-02	1.2730E+00	1.7418E+04	3.0122E+01
4.1258E+02	1.1466E-02	1.2585E+00	1.7219E+04	3.0051E+01
4.1356E+02	1.2412E-02	1.3623E+00	1.8640E+04	2.9980E+01
4.1432E+02	1.2989E-02	1.4257E+00	1.9507E+04	2.9925E+01
4.1522E+02	1.3093E-02	1.4371E+00	1.9663E+04	2.9860E+01
4.1601E+02	1.3547E-02	1.4869E+00	2.0345E+04	2.9803E+01
4.1731E+02	1.6621E-02	1.8244E+00	2.4963E+04	2.9710E+01
4.1842E+02	1.9403E-02	2.1297E+00	2.9140E+04	2.9632E+01
4.1899E+02	1.9989E-02	2.1940E+00	3.0020E+04	2.9591E+01
4.2000E+02	1.9951E-02	2.1899E+00	2.9964E+04	2.9520E+01
4.2050E+02	2.0273E-02	2.2252E+00	3.0447E+04	2.9485E+01
4.2118E+02	2.1569E-02	2.3674E+00	3.2393E+04	2.9437E+01
4.2218E+02	2.2761E-02	2.4983E+00	3.4183E+04	2.9368E+01
4.2358E+02	2.3471E-02	2.5762E+00	3.5249E+04	2.9271E+01
4.2523E+02	2.2988E-02	2.5232E+00	3.4524E+04	2.9157E+01
4.2694E+02	2.1957E-02	2.4100E+00	3.2976E+04	2.9040E+01
4.2835E+02	2.0926E-02	2.2968E+00	3.1427E+04	2.8945E+01
4.3000E+02	1.9630E-02	2.1546E+00	2.9480E+04	2.8834E+01
4.3250E+02	1.7558E-02	1.9272E+00	2.6369E+04	2.8667E+01
4.3500E+02	1.5969E-02	1.7527E+00	2.3982E+04	2.8502E+01
4.3750E+02	1.4417E-02	1.5824E+00	2.1652E+04	2.8339E+01
4.4000E+02	1.3443E-02	1.4755E+00	2.0189E+04	2.8178E+01
4.4250E+02	1.2667E-02	1.3904E+00	1.9024E+04	2.8019E+01
4.4500E+02	1.1920E-02	1.3083E+00	1.7901E+04	2.7862E+01
4.4750E+02	1.1399E-02	1.2512E+00	1.7120E+04	2.7706E+01
4.5000E+02	1.1182E-02	1.2273E+00	1.6793E+04	2.7552E+01
4.5250E+02	1.0917E-02	1.1983E+00	1.6395E+04	2.7400E+01

Table II. Oscillator-strength density, df/dE , 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)
4.5500E+02	1.0851E-02	1.1910E+00	1.6296E+04	2.7249E+01
5.0000E+02	8.7044E-03	9.5540E-01	1.3072E+04	2.4797E+01
5.0600E+02	8.3990E-03	9.2188E-01	1.2614E+04	2.4503E+01
5.1000E+02	8.3076E-03	9.1185E-01	1.2477E+04	2.4311E+01
5.1250E+02	8.2162E-03	9.0182E-01	1.2339E+04	2.4192E+01
5.1500E+02	8.0609E-03	8.8477E-01	1.2106E+04	2.4075E+01
5.1750E+02	7.9238E-03	8.6972E-01	1.1900E+04	2.3958E+01
5.2000E+02	7.8598E-03	8.6270E-01	1.1804E+04	2.3843E+01
5.2250E+02	7.8324E-03	8.5969E-01	1.1763E+04	2.3729E+01
5.2500E+02	7.8324E-03	8.5969E-01	1.1763E+04	2.3616E+01
5.2750E+02	7.7958E-03	8.5568E-01	1.1708E+04	2.3504E+01
5.3000E+02	7.8324E-03	8.5969E-01	1.1763E+04	2.3393E+01
5.3300E+02	8.1248E-03	8.9179E-01	1.2202E+04	2.3262E+01
5.3332E+02	1.4440E-02	1.5850E+00	2.1687E+04	2.3248E+01
5.3356E+02	1.8525E-02	2.0334E+00	2.7822E+04	2.3237E+01
5.3459E+02	8.2729E-02	9.0804E+00	1.2424E+05	2.3192E+01
5.3561E+02	1.8553E-02	2.0364E+00	2.7863E+04	2.3148E+01
5.3659E+02	2.7007E-02	2.9643E+00	4.0559E+04	2.3106E+01
5.3712E+02	1.8571E-02	2.0384E+00	2.7891E+04	2.3083E+01
5.3761E+02	9.1393E-03	1.0031E+00	1.3726E+04	2.3062E+01
5.3834E+02	2.0664E-02	2.2681E+00	3.1034E+04	2.3031E+01
5.3888E+02	3.8604E-02	4.2373E+00	5.7977E+04	2.3008E+01
5.3951E+02	2.0618E-02	2.2631E+00	3.0965E+04	2.2981E+01
5.3980E+02	2.1843E-02	2.3975E+00	3.2804E+04	2.2969E+01
5.4098E+02	1.7228E-02	1.8909E+00	2.5873E+04	2.2918E+01
5.4190E+02	1.4559E-02	1.5980E+00	2.1865E+04	2.2880E+01
5.4312E+02	1.2018E-02	1.3191E+00	1.8049E+04	2.2828E+01
5.4500E+02	1.1927E-02	1.3091E+00	1.7912E+04	2.2749E+01
5.4829E+02	1.2137E-02	1.3322E+00	1.8228E+04	2.2613E+01
5.5107E+02	1.2612E-02	1.3843E+00	1.8941E+04	2.2499E+01
5.5327E+02	1.3069E-02	1.4345E+00	1.9628E+04	2.2409E+01
5.5561E+02	1.2841E-02	1.4094E+00	1.9285E+04	2.2315E+01
5.5834E+02	1.3416E-02	1.4726E+00	2.0149E+04	2.2206E+01
5.6000E+02	1.2795E-02	1.4044E+00	1.9216E+04	2.2140E+01
5.6268E+02	1.2064E-02	1.3241E+00	1.8118E+04	2.2035E+01
5.6600E+02	1.1634E-02	1.2770E+00	1.7473E+04	2.1905E+01

Table II. Oscillator-strength density, df/dE , 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)
5.7000E+02	1.1333E-02	1.2439E+00	1.7020E+04	2.1752E+01
5.7500E+02	1.0921E-02	1.1988E+00	1.6402E+04	2.1562E+01
5.8000E+02	1.0629E-02	1.1667E+00	1.5963E+04	2.1377E+01
5.8500E+02	1.0282E-02	1.1285E+00	1.5441E+04	2.1194E+01
5.9000E+02	1.0008E-02	1.0984E+00	1.5030E+04	2.1014E+01
5.9500E+02	9.8704E-03	1.0834E+00	1.4824E+04	2.0838E+01
6.0000E+02	9.6237E-03	1.0563E+00	1.4453E+04	2.0664E+01
6.0300E+02	9.4135E-03	1.0332E+00	1.4137E+04	2.0561E+01
7.0000E+02	6.3505E-03	6.9703E-01	9.5373E+03	1.7712E+01
8.0000E+02	4.5175E-03	4.9584E-01	6.7845E+03	1.5498E+01
9.0000E+02	3.3283E-03	3.6532E-01	4.9985E+03	1.3776E+01
1.0000E+03	2.5215E-03	2.7676E-01	3.7868E+03	1.2398E+01
1.2500E+03	1.3817E-03	1.5166E-01	2.0751E+03	9.9187E+00
1.5000E+03	8.3435E-04	9.1579E-02	1.2530E+03	8.2656E+00
1.7500E+03	5.4005E-04	5.9277E-02	8.1107E+02	7.0848E+00
2.0000E+03	3.6832E-04	4.0427E-02	5.5315E+02	6.1992E+00
2.2500E+03	2.6416E-04	2.8994E-02	3.9672E+02	5.5104E+00
2.5000E+03	1.9452E-04	2.1351E-02	2.9213E+02	4.9594E+00
2.7500E+03	1.4732E-04	1.6170E-02	2.2125E+02	4.5085E+00
3.0000E+03	1.1416E-04	1.2530E-02	1.7145E+02	4.1328E+00
3.5000E+03	7.2386E-05	7.9452E-03	1.0871E+02	3.5424E+00
4.0000E+03	4.8552E-05	5.3291E-03	7.2917E+01	3.0996E+00
4.5000E+03	3.3993E-05	3.7311E-03	5.1052E+01	2.7552E+00
5.0000E+03	2.4620E-05	2.7023E-03	3.6975E+01	2.4797E+00
6.0000E+03	1.3955E-05	1.5317E-03	2.0958E+01	2.0664E+00
7.0000E+03	8.5420E-06	9.3758E-04	1.2829E+01	1.7712E+00
8.0000E+03	5.5299E-06	6.0697E-04	8.3050E+00	1.5498E+00
9.0000E+03	3.7349E-06	4.0995E-04	5.6092E+00	1.3776E+00
1.0000E+04	2.7237E-06	2.9896E-04	4.0906E+00	1.2398E+00
1.2500E+04	1.3323E-06	1.4623E-04	2.0009E+00	9.9187E-01
1.5000E+04	7.4260E-07	8.1509E-05	1.1153E+00	8.2656E-01
1.7500E+04	4.5307E-07	4.9729E-05	6.8043E-01	7.0848E-01
2.0000E+04	2.9530E-07	3.2412E-05	4.4349E-01	6.1992E-01
2.2500E+04	2.0245E-07	2.2221E-05	3.0405E-01	5.5104E-01
2.5000E+04	1.4445E-07	1.5855E-05	2.1693E-01	4.9594E-01
2.7500E+04	1.0614E-07	1.1650E-05	1.5940E-01	4.5085E-01

Table II. Oscillator-strength density, df/dE , 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)
3.0000E+04	7.9771E-08	8.7557E-06	1.1980E-01	4.1328E-01
3.5000E+04	4.8079E-08	5.2772E-06	7.2207E-02	3.5424E-01
4.0000E+04	3.1010E-08	3.4037E-06	4.6572E-02	3.0996E-01
4.5000E+04	2.1063E-08	2.3119E-06	3.1633E-02	2.7552E-01
5.0000E+04	1.4902E-08	1.6357E-06	2.2380E-02	2.4797E-01
6.0000E+04	8.1890E-09	8.9883E-07	1.2298E-02	2.0664E-01
7.0000E+04	4.9360E-09	5.4178E-07	7.4131E-03	1.7712E-01
8.0000E+04	3.1828E-09	3.4935E-07	4.7801E-03	1.5498E-01
9.0000E+04	2.1603E-09	2.3712E-07	3.2444E-03	1.3776E-01
1.0000E+05	1.5264E-09	1.6754E-07	2.2924E-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

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

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

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

where $E_K = 412.6$ and 541.4 eV for nitrogen and oxygen atoms, respectively.

