

Sulfur Dioxide (SO₂)

Z = 32

Molecular Mass : $M_A = 64.0638$

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

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

Table I. Oscillator-strength density, df/dE , photoabsorption cross section, 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)
3.8035E+00	7.3483E-04	8.0656E-02	7.5818E+02	3.2597E+03
3.8555E+00	9.5531E-04	1.0486E-01	9.8567E+02	3.2158E+03
3.9306E+00	1.6167E-03	1.7745E-01	1.6681E+03	3.1543E+03
4.0000E+00	2.7925E-03	3.0650E-01	2.8812E+03	3.0996E+03
4.0751E+00	4.1887E-03	4.5975E-01	4.3218E+03	3.0425E+03
4.1792E+00	6.7608E-03	7.4207E-01	6.9756E+03	2.9667E+03
4.2486E+00	8.0100E-03	8.7919E-01	8.2646E+03	2.9182E+03
4.3237E+00	8.9656E-03	9.8407E-01	9.2505E+03	2.8675E+03
4.4277E+00	8.2305E-03	9.0339E-01	8.4920E+03	2.8002E+03
4.5087E+00	6.9812E-03	7.6627E-01	7.2031E+03	2.7499E+03
4.6243E+00	5.2911E-03	5.8075E-01	5.4592E+03	2.6811E+03
4.7572E+00	3.3803E-03	3.7103E-01	3.4878E+03	2.6062E+03
4.8497E+00	2.3515E-03	2.5811E-01	2.4263E+03	2.5565E+03
4.9827E+00	1.6167E-03	1.7745E-01	1.6681E+03	2.4883E+03
5.1040E+00	1.0288E-03	1.1292E-01	1.0615E+03	2.4292E+03
5.2542E+00	3.8277E-04	4.2013E-02	3.9493E+02	2.3597E+03
5.3294E+00	6.0948E-04	6.6898E-02	6.2885E+02	2.3264E+03
5.4504E+00	2.5481E-03	2.7968E-01	2.6290E+03	2.2748E+03
5.5649E+00	6.8650E-03	7.5351E-01	7.0831E+03	2.2280E+03
5.7116E+00	1.9805E-02	2.1739E+00	2.0435E+04	2.1707E+03
5.8403E+00	3.4976E-02	3.8390E+00	3.6087E+04	2.1229E+03
5.9742E+00	5.1781E-02	5.6835E+00	5.3427E+04	2.0753E+03
6.0859E+00	6.5538E-02	7.1935E+00	6.7621E+04	2.0372E+03
6.2173E+00	7.1640E-02	7.8633E+00	7.3917E+04	1.9942E+03
6.3279E+00	6.9564E-02	7.6354E+00	7.1775E+04	1.9593E+03
6.4468E+00	5.9312E-02	6.5101E+00	6.1197E+04	1.9232E+03
6.6134E+00	4.4825E-02	4.9201E+00	4.6250E+04	1.8747E+03
6.7746E+00	2.8778E-02	3.1587E+00	2.9693E+04	1.8301E+03
6.9346E+00	1.6595E-02	1.8215E+00	1.7123E+04	1.7879E+03

Table I. 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)
7.1634E+00	6.7212E-03	7.3773E-01	6.9348E+03	1.7308E+03
7.2858E+00	4.2000E-03	4.6100E-01	4.3335E+03	1.7017E+03
7.4500E+00	2.4898E-03	2.7328E-01	2.5689E+03	1.6642E+03
7.5991E+00	4.8620E-03	5.3365E-01	5.0165E+03	1.6316E+03
7.7833E+00	1.4847E-02	1.6296E+00	1.5319E+04	1.5930E+03
7.9443E+00	3.0131E-02	3.3072E+00	3.1089E+04	1.5607E+03
8.0997E+00	4.2376E-02	4.6512E+00	4.3723E+04	1.5307E+03
8.2205E+00	5.0044E-02	5.4928E+00	5.1634E+04	1.5082E+03
8.4168E+00	4.6372E-02	5.0898E+00	4.7845E+04	1.4731E+03
8.6190E+00	3.8149E-02	4.1873E+00	3.9362E+04	1.4385E+03
8.9076E+00	3.4537E-02	3.7908E+00	3.5634E+04	1.3919E+03
9.1386E+00	3.0128E-02	3.3068E+00	3.1085E+04	1.3567E+03
9.2074E+00	4.0799E-02	4.4782E+00	4.2096E+04	1.3466E+03
9.2358E+00	5.2963E-02	5.8133E+00	5.4646E+04	1.3424E+03
9.2972E+00	1.0842E-01	1.1900E+01	1.1187E+05	1.3336E+03
9.3323E+00	9.6299E-02	1.0570E+01	9.9359E+04	1.3285E+03
9.3667E+00	1.0239E-01	1.1239E+01	1.0565E+05	1.3237E+03
9.4119E+00	1.2898E-01	1.4157E+01	1.3308E+05	1.3173E+03
9.4464E+00	1.3205E-01	1.4494E+01	1.3625E+05	1.3125E+03
9.4468E+00	1.2142E-01	1.3327E+01	1.2528E+05	1.3124E+03
9.4874E+00	1.1537E-01	1.2663E+01	1.1904E+05	1.3068E+03
9.5273E+00	1.2830E-01	1.4083E+01	1.3238E+05	1.3014E+03
9.5839E+00	1.5794E-01	1.7336E+01	1.6296E+05	1.2937E+03
9.6117E+00	1.8529E-01	2.0337E+01	1.9118E+05	1.2899E+03
9.6224E+00	2.0882E-01	2.2921E+01	2.1546E+05	1.2885E+03
9.6598E+00	2.9084E-01	3.1923E+01	3.0008E+05	1.2835E+03
9.7013E+00	4.1916E-01	4.6007E+01	4.3248E+05	1.2780E+03
9.7448E+00	6.4844E-01	7.1173E+01	6.6904E+05	1.2723E+03
9.7970E+00	9.5663E-01	1.0500E+02	9.8703E+05	1.2655E+03
9.8537E+00	9.8554E-01	1.0817E+02	1.0169E+06	1.2582E+03
9.9518E+00	6.6906E-01	7.3437E+01	6.9033E+05	1.2458E+03
1.0054E+01	4.0648E-01	4.4615E+01	4.1939E+05	1.2332E+03
1.0102E+01	3.5109E-01	3.8536E+01	3.6225E+05	1.2273E+03
1.0125E+01	3.4579E-01	3.7954E+01	3.5678E+05	1.2245E+03
1.0154E+01	3.5036E-01	3.8456E+01	3.6150E+05	1.2210E+03
1.0177E+01	3.4354E-01	3.7708E+01	3.5446E+05	1.2183E+03

Table I. 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)
1.0309E+01	2.1229E-01	2.3302E+01	2.1904E+05	1.2027E+03
1.0363E+01	1.5388E-01	1.6890E+01	1.5877E+05	1.1964E+03
1.0410E+01	1.1520E-01	1.2644E+01	1.1886E+05	1.1910E+03
1.0533E+01	7.8076E-02	8.5697E+00	8.0557E+04	1.1771E+03
1.0608E+01	8.1919E-02	8.9915E+00	8.4522E+04	1.1688E+03
1.0672E+01	7.4368E-02	8.1627E+00	7.6731E+04	1.1618E+03
1.0740E+01	1.0553E-01	1.1583E+01	1.0888E+05	1.1544E+03
1.0809E+01	2.5589E-01	2.8087E+01	2.6402E+05	1.1470E+03
1.0863E+01	2.0733E-01	2.2757E+01	2.1392E+05	1.1413E+03
1.0899E+01	3.1516E-01	3.4592E+01	3.2517E+05	1.1376E+03
1.0934E+01	3.2504E-01	3.5677E+01	3.3537E+05	1.1339E+03
1.0963E+01	3.1899E-01	3.5013E+01	3.2913E+05	1.1309E+03
1.0975E+01	2.9470E-01	3.2347E+01	3.0407E+05	1.1297E+03
1.1020E+01	3.3421E-01	3.6683E+01	3.4483E+05	1.1251E+03
1.1056E+01	3.0083E-01	3.3020E+01	3.1039E+05	1.1214E+03
1.1081E+01	2.2341E-01	2.4522E+01	2.3051E+05	1.1189E+03
1.1112E+01	1.8244E-01	2.0025E+01	1.8824E+05	1.1158E+03
1.1129E+01	1.7334E-01	1.9026E+01	1.7885E+05	1.1141E+03
1.1153E+01	1.7488E-01	1.9195E+01	1.8044E+05	1.1117E+03
1.1170E+01	1.6426E-01	1.8029E+01	1.6948E+05	1.1100E+03
1.1194E+01	1.4454E-01	1.5865E+01	1.4913E+05	1.1076E+03
1.1264E+01	1.2561E-01	1.3787E+01	1.2960E+05	1.1007E+03
1.1275E+01	1.3093E-01	1.4371E+01	1.3509E+05	1.0996E+03
1.1356E+01	1.3097E-01	1.4376E+01	1.3513E+05	1.0918E+03
1.1373E+01	1.2947E-01	1.4211E+01	1.3359E+05	1.0902E+03
1.1431E+01	1.4393E-01	1.5798E+01	1.4851E+05	1.0846E+03
1.1447E+01	1.7734E-01	1.9465E+01	1.8297E+05	1.0831E+03
1.1493E+01	1.7737E-01	1.9469E+01	1.8301E+05	1.0788E+03
1.1545E+01	1.6905E-01	1.8555E+01	1.7442E+05	1.0739E+03
1.1591E+01	1.8275E-01	2.0059E+01	1.8856E+05	1.0697E+03
1.1631E+01	1.8353E-01	2.0144E+01	1.8936E+05	1.0660E+03
1.1654E+01	1.9417E-01	2.1312E+01	2.0034E+05	1.0639E+03
1.1694E+01	1.9875E-01	2.1816E+01	2.0507E+05	1.0602E+03
1.1711E+01	1.9421E-01	2.1316E+01	2.0038E+05	1.0587E+03
1.1746E+01	2.0107E-01	2.2069E+01	2.0745E+05	1.0555E+03
1.1774E+01	2.1778E-01	2.3904E+01	2.2470E+05	1.0530E+03

Table I. 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)
1.1850E+01	1.8140E-01	1.9910E+01	1.8716E+05	1.0463E+03
1.1966E+01	1.6932E-01	1.8585E+01	1.7470E+05	1.0361E+03
1.2041E+01	1.7240E-01	1.8923E+01	1.7788E+05	1.0297E+03
1.2098E+01	1.8534E-01	2.0344E+01	1.9123E+05	1.0248E+03
1.2189E+01	2.3323E-01	2.5599E+01	2.4064E+05	1.0172E+03
1.2296E+01	2.9327E-01	3.2189E+01	3.0259E+05	1.0083E+03
1.2350E+01	3.5742E-01	3.9230E+01	3.6877E+05	1.0039E+03
1.2589E+01	3.6882E-01	4.0482E+01	3.8054E+05	9.8490E+02
1.2778E+01	3.9589E-01	4.3454E+01	4.0847E+05	9.7030E+02
1.2927E+01	4.2726E-01	4.6897E+01	4.4084E+05	9.5910E+02
1.3159E+01	4.5223E-01	4.9637E+01	4.6660E+05	9.4220E+02
1.3423E+01	4.6135E-01	5.0638E+01	4.7601E+05	9.2370E+02
1.3671E+01	4.5511E-01	4.9953E+01	4.6957E+05	9.0690E+02
1.3821E+01	4.3135E-01	4.7345E+01	4.4506E+05	8.9710E+02
1.3994E+01	3.9480E-01	4.3334E+01	4.0735E+05	8.8600E+02
1.4166E+01	3.5868E-01	3.9369E+01	3.7008E+05	8.7520E+02
1.4357E+01	3.2945E-01	3.6161E+01	3.3992E+05	8.6360E+02
1.4629E+01	3.4747E-01	3.8139E+01	3.5852E+05	8.4750E+02
1.4824E+01	3.6462E-01	4.0021E+01	3.7621E+05	8.3640E+02
1.4958E+01	4.2132E-01	4.6244E+01	4.3471E+05	8.2890E+02
1.5107E+01	4.6718E-01	5.1278E+01	4.8202E+05	8.2070E+02
1.5324E+01	4.2752E-01	4.6925E+01	4.4111E+05	8.0910E+02
1.5498E+01	3.7106E-01	4.0728E+01	3.8285E+05	8.0000E+02
1.5778E+01	4.2764E-01	4.6938E+01	4.4123E+05	7.8580E+02
1.6023E+01	4.5547E-01	4.9993E+01	4.6995E+05	7.7380E+02
1.6385E+01	4.7765E-01	5.2427E+01	4.9283E+05	7.5670E+02
1.6670E+01	4.6962E-01	5.1545E+01	4.8454E+05	7.4376E+02
1.7000E+01	4.8375E-01	5.3097E+01	4.9913E+05	7.2932E+02
1.7500E+01	5.1963E-01	5.7035E+01	5.3614E+05	7.0848E+02
1.8000E+01	5.4651E-01	5.9986E+01	5.6388E+05	6.8880E+02
1.8500E+01	5.5403E-01	6.0811E+01	5.7164E+05	6.7018E+02
1.9000E+01	5.4977E-01	6.0343E+01	5.6724E+05	6.5255E+02
1.9500E+01	5.4759E-01	6.0104E+01	5.6499E+05	6.3582E+02
2.0000E+01	5.3218E-01	5.8412E+01	5.4909E+05	6.1992E+02
2.0500E+01	5.1170E-01	5.6164E+01	5.2796E+05	6.0480E+02
2.1000E+01	4.8948E-01	5.3726E+01	5.0503E+05	5.9040E+02

Table I. 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)
2.1500E+01	4.7115E-01	5.1713E+01	4.8612E+05	5.7667E+02
2.2000E+01	4.4564E-01	4.8913E+01	4.5980E+05	5.6356E+02
2.2500E+01	4.2334E-01	4.6467E+01	4.3680E+05	5.5104E+02
2.3000E+01	4.1115E-01	4.5129E+01	4.2422E+05	5.3906E+02
2.3500E+01	3.9264E-01	4.3097E+01	4.0512E+05	5.2759E+02
2.4000E+01	3.7401E-01	4.1052E+01	3.8590E+05	5.1660E+02
2.4500E+01	3.6254E-01	3.9793E+01	3.7406E+05	5.0606E+02
2.5000E+01	3.4981E-01	3.8396E+01	3.6093E+05	4.9594E+02
2.5500E+01	3.4109E-01	3.7439E+01	3.5193E+05	4.8621E+02
2.6000E+01	3.3275E-01	3.6523E+01	3.4332E+05	4.7686E+02
2.6500E+01	3.2305E-01	3.5458E+01	3.3332E+05	4.6786E+02
2.7000E+01	3.1430E-01	3.4498E+01	3.2429E+05	4.5920E+02
2.7500E+01	3.0689E-01	3.3684E+01	3.1664E+05	4.5085E+02
2.8000E+01	2.9524E-01	3.2406E+01	3.0462E+05	4.4280E+02
2.8500E+01	2.8973E-01	3.1801E+01	2.9893E+05	4.3503E+02
2.9000E+01	2.8488E-01	3.1269E+01	2.9394E+05	4.2753E+02
2.9500E+01	2.7253E-01	2.9913E+01	2.8119E+05	4.2029E+02
3.0000E+01	2.6324E-01	2.8894E+01	2.7161E+05	4.1328E+02
3.0500E+01	2.6088E-01	2.8635E+01	2.6917E+05	4.0651E+02
3.1000E+01	2.5033E-01	2.7476E+01	2.5828E+05	3.9995E+02
3.1500E+01	2.4458E-01	2.6845E+01	2.5235E+05	3.9360E+02
3.2000E+01	2.3921E-01	2.6256E+01	2.4681E+05	3.8745E+02
3.2500E+01	2.2940E-01	2.5179E+01	2.3669E+05	3.8149E+02
3.3000E+01	2.2691E-01	2.4906E+01	2.3413E+05	3.7571E+02
3.3500E+01	2.1670E-01	2.3785E+01	2.2358E+05	3.7010E+02
3.4000E+01	2.1643E-01	2.3755E+01	2.2330E+05	3.6466E+02
3.4500E+01	2.0948E-01	2.2993E+01	2.1614E+05	3.5937E+02
3.5000E+01	2.0466E-01	2.2464E+01	2.1116E+05	3.5424E+02
3.5500E+01	1.9383E-01	2.1275E+01	1.9999E+05	3.4925E+02
3.6000E+01	1.9025E-01	2.0882E+01	1.9630E+05	3.4440E+02
3.6500E+01	1.8560E-01	2.0372E+01	1.9150E+05	3.3968E+02
3.7000E+01	1.7862E-01	1.9606E+01	1.8430E+05	3.3509E+02
3.7500E+01	1.7862E-01	1.9605E+01	1.8430E+05	3.3062E+02
3.8000E+01	1.7386E-01	1.9083E+01	1.7939E+05	3.2627E+02
3.8500E+01	1.6531E-01	1.8144E+01	1.7056E+05	3.2204E+02
3.9000E+01	1.6238E-01	1.7823E+01	1.6754E+05	3.1791E+02

Table I. 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)
3.9500E+01	1.6091E-01	1.7662E+01	1.6603E+05	3.1388E+02
4.0000E+01	1.5857E-01	1.7405E+01	1.6361E+05	3.0996E+02
4.1000E+01	1.5445E-01	1.6953E+01	1.5936E+05	3.0240E+02
4.2000E+01	1.5013E-01	1.6478E+01	1.5490E+05	2.9520E+02
4.3000E+01	1.4492E-01	1.5907E+01	1.4953E+05	2.8834E+02
4.4000E+01	1.4273E-01	1.5666E+01	1.4727E+05	2.8178E+02
4.5000E+01	1.3770E-01	1.5114E+01	1.4207E+05	2.7552E+02
4.6000E+01	1.3540E-01	1.4861E+01	1.3970E+05	2.6953E+02
4.7000E+01	1.3201E-01	1.4490E+01	1.3620E+05	2.6380E+02
4.8000E+01	1.3068E-01	1.4343E+01	1.3483E+05	2.5830E+02
4.9000E+01	1.2728E-01	1.3970E+01	1.3132E+05	2.5303E+02
5.0000E+01	1.2515E-01	1.3737E+01	1.2913E+05	2.4797E+02
5.1000E+01	1.1987E-01	1.3157E+01	1.2368E+05	2.4311E+02
5.2000E+01	1.2009E-01	1.3182E+01	1.2391E+05	2.3843E+02
5.3000E+01	1.1568E-01	1.2697E+01	1.1936E+05	2.3393E+02
5.4000E+01	1.1501E-01	1.2624E+01	1.1867E+05	2.2960E+02
5.5000E+01	1.1237E-01	1.2334E+01	1.1594E+05	2.2543E+02
5.6000E+01	1.1100E-01	1.2184E+01	1.1453E+05	2.2140E+02
5.7000E+01	1.0696E-01	1.1740E+01	1.1036E+05	2.1752E+02
5.8000E+01	1.0419E-01	1.1436E+01	1.0750E+05	2.1377E+02
5.9000E+01	1.0122E-01	1.1111E+01	1.0444E+05	2.1014E+02
6.0000E+01	9.9542E-02	1.0926E+01	1.0271E+05	2.0664E+02
6.1000E+01	9.8054E-02	1.0763E+01	1.0117E+05	2.0325E+02
6.2000E+01	9.2979E-02	1.0205E+01	9.5934E+04	1.9997E+02
6.3000E+01	9.3275E-02	1.0238E+01	9.6239E+04	1.9680E+02
6.4000E+01	9.1276E-02	1.0019E+01	9.4177E+04	1.9373E+02
6.5000E+01	8.8075E-02	9.6672E+00	9.0874E+04	1.9074E+02
6.6000E+01	8.4668E-02	9.2932E+00	8.7358E+04	1.8785E+02
6.7000E+01	8.2253E-02	9.0282E+00	8.4867E+04	1.8505E+02
6.8000E+01	8.1537E-02	8.9496E+00	8.4128E+04	1.8233E+02
6.9000E+01	8.0417E-02	8.8267E+00	8.2973E+04	1.7969E+02
7.0000E+01	7.7991E-02	8.5603E+00	8.0469E+04	1.7712E+02
7.1000E+01	7.5659E-02	8.3045E+00	7.8064E+04	1.7463E+02
7.2000E+01	7.3323E-02	8.0480E+00	7.5653E+04	1.7220E+02
7.3000E+01	7.1888E-02	7.8905E+00	7.4173E+04	1.6984E+02
7.4000E+01	6.9845E-02	7.6663E+00	7.2065E+04	1.6755E+02

Table I. 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)
7.5000E+01	6.9513E-02	7.6298E+00	7.1722E+04	1.6531E+02
7.6000E+01	6.7362E-02	7.3937E+00	6.9503E+04	1.6314E+02
7.7000E+01	6.6622E-02	7.3125E+00	6.8739E+04	1.6102E+02
7.8000E+01	6.3958E-02	7.0201E+00	6.5990E+04	1.5895E+02
7.9000E+01	6.3111E-02	6.9272E+00	6.5117E+04	1.5694E+02
8.0000E+01	6.0640E-02	6.6559E+00	6.2567E+04	1.5498E+02
8.1000E+01	6.0195E-02	6.6070E+00	6.2107E+04	1.5307E+02
8.2000E+01	5.9646E-02	6.5468E+00	6.1541E+04	1.5120E+02
8.3000E+01	5.7062E-02	6.2632E+00	5.8875E+04	1.4938E+02
8.4000E+01	5.6509E-02	6.2025E+00	5.8305E+04	1.4760E+02
8.4110E+01	5.5334E-02	6.0735E+00	5.7092E+04	1.4741E+02
8.5000E+01	5.3913E-02	5.9175E+00	5.5626E+04	1.4586E+02
8.6000E+01	5.2211E-02	5.7307E+00	5.3870E+04	1.4417E+02
8.7000E+01	5.1810E-02	5.6867E+00	5.3456E+04	1.4251E+02
8.8000E+01	5.0508E-02	5.5438E+00	5.2113E+04	1.4089E+02
8.9000E+01	4.9107E-02	5.3900E+00	5.0667E+04	1.3931E+02
9.0000E+01	4.8305E-02	5.3021E+00	4.9840E+04	1.3776E+02
9.1000E+01	4.6404E-02	5.0934E+00	4.7879E+04	1.3625E+02
9.2000E+01	4.6403E-02	5.0932E+00	4.7878E+04	1.3477E+02
9.3000E+01	4.7602E-02	5.2248E+00	4.9115E+04	1.3332E+02
9.4000E+01	4.5401E-02	4.9832E+00	4.6843E+04	1.3190E+02
9.5000E+01	4.3100E-02	4.7307E+00	4.4469E+04	1.3051E+02
9.6000E+01	4.2999E-02	4.7196E+00	4.4365E+04	1.2915E+02
9.7000E+01	4.0698E-02	4.4670E+00	4.1991E+04	1.2782E+02
9.8000E+01	4.1197E-02	4.5218E+00	4.2506E+04	1.2651E+02
9.9000E+01	3.8296E-02	4.2034E+00	3.9513E+04	1.2524E+02
1.0000E+02	3.8895E-02	4.2692E+00	4.0131E+04	1.2398E+02
1.0100E+02	3.7594E-02	4.1264E+00	3.8789E+04	1.2276E+02
1.0200E+02	3.7093E-02	4.0714E+00	3.8272E+04	1.2155E+02
1.0300E+02	3.6693E-02	4.0274E+00	3.7859E+04	1.2037E+02
1.0400E+02	3.5492E-02	3.8956E+00	3.6620E+04	1.1922E+02
1.0500E+02	3.5391E-02	3.8846E+00	3.6516E+04	1.1808E+02
1.0600E+02	3.4091E-02	3.7418E+00	3.5174E+04	1.1697E+02
1.0700E+02	3.3490E-02	3.6759E+00	3.4554E+04	1.1587E+02
1.0800E+02	3.3989E-02	3.7307E+00	3.5069E+04	1.1480E+02
1.0900E+02	3.2489E-02	3.5660E+00	3.3521E+04	1.1375E+02

Table I. 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)
1.1000E+02	3.1488E-02	3.4562E+00	3.2489E+04	1.1271E+02
1.1200E+02	3.0487E-02	3.3463E+00	3.1456E+04	1.1070E+02
1.1400E+02	2.8887E-02	3.1706E+00	2.9805E+04	1.0876E+02
1.1600E+02	2.7586E-02	3.0278E+00	2.8462E+04	1.0688E+02
1.1800E+02	2.6885E-02	2.9509E+00	2.7739E+04	1.0507E+02
1.2000E+02	2.5884E-02	2.8411E+00	2.6707E+04	1.0332E+02
1.2200E+02	2.4884E-02	2.7313E+00	2.5674E+04	1.0163E+02
1.2400E+02	2.4183E-02	2.6543E+00	2.4951E+04	9.9987E+01
1.2600E+02	2.3282E-02	2.5555E+00	2.4022E+04	9.8400E+01
1.2800E+02	2.1982E-02	2.4128E+00	2.2681E+04	9.6863E+01
1.3000E+02	2.1382E-02	2.3469E+00	2.2061E+04	9.5372E+01
1.3200E+02	2.0681E-02	2.2700E+00	2.1339E+04	9.3927E+01
1.3400E+02	1.9881E-02	2.1822E+00	2.0513E+04	9.2526E+01
1.3600E+02	1.9281E-02	2.1163E+00	1.9894E+04	9.1165E+01
1.3800E+02	1.8680E-02	2.0504E+00	1.9274E+04	8.9844E+01
1.4000E+02	1.8280E-02	2.0064E+00	1.8861E+04	8.8560E+01
1.4200E+02	1.7680E-02	1.9406E+00	1.8242E+04	8.7313E+01
1.4400E+02	1.6780E-02	1.8418E+00	1.7313E+04	8.6100E+01
1.4600E+02	1.6480E-02	1.8088E+00	1.7003E+04	8.4921E+01
1.4800E+02	1.6179E-02	1.7758E+00	1.6693E+04	8.3773E+01
1.5000E+02	1.5579E-02	1.7100E+00	1.6074E+04	8.2656E+01
1.5200E+02	1.4480E-02	1.5893E+00	1.4940E+04	8.1569E+01
1.5400E+02	1.4579E-02	1.6002E+00	1.5042E+04	8.0509E+01
1.5600E+02	1.4079E-02	1.5453E+00	1.4527E+04	7.9477E+01
1.5800E+02	1.3779E-02	1.5124E+00	1.4217E+04	7.8471E+01
1.6000E+02	1.3079E-02	1.4356E+00	1.3495E+04	7.7490E+01
1.6050E+02	1.2880E-02	1.4137E+00	1.3289E+04	7.7249E+01
1.6100E+02	1.2780E-02	1.4027E+00	1.3186E+04	7.7009E+01
1.6150E+02	1.2879E-02	1.4136E+00	1.3289E+04	7.6770E+01
1.6200E+02	1.2580E-02	1.3807E+00	1.2979E+04	7.6533E+01
1.6250E+02	1.2579E-02	1.3807E+00	1.2979E+04	7.6298E+01
1.6300E+02	1.2479E-02	1.3698E+00	1.2876E+04	7.6064E+01
1.6398E+02	1.6689E-02	1.8318E+00	1.7219E+04	7.5609E+01
1.6435E+02	1.6388E-02	1.7987E+00	1.6908E+04	7.5439E+01
1.6441E+02	1.6932E-02	1.8584E+00	1.7470E+04	7.5412E+01
1.6446E+02	1.8119E-02	1.9888E+00	1.8695E+04	7.5389E+01

Table I. 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)
1.6450E+02	1.7128E-02	1.8800E+00	1.7673E+04	7.5370E+01
1.6455E+02	1.7128E-02	1.8800E+00	1.7673E+04	7.5347E+01
1.6457E+02	1.7524E-02	1.9234E+00	1.8081E+04	7.5338E+01
1.6463E+02	1.7572E-02	1.9288E+00	1.8131E+04	7.5311E+01
1.6471E+02	2.3020E-02	2.5267E+00	2.3751E+04	7.5274E+01
1.6475E+02	1.9949E-02	2.1896E+00	2.0583E+04	7.5256E+01
1.6479E+02	1.9205E-02	2.1080E+00	1.9815E+04	7.5238E+01
1.6483E+02	2.0988E-02	2.3037E+00	2.1655E+04	7.5219E+01
1.6489E+02	1.8610E-02	2.0427E+00	1.9202E+04	7.5192E+01
1.6496E+02	2.1333E-02	2.3415E+00	2.2011E+04	7.5160E+01
1.6502E+02	1.8361E-02	2.0153E+00	1.8945E+04	7.5133E+01
1.6507E+02	1.9302E-02	2.1186E+00	1.9915E+04	7.5110E+01
1.6514E+02	1.6874E-02	1.8521E+00	1.7410E+04	7.5078E+01
1.6521E+02	1.6724E-02	1.8357E+00	1.7256E+04	7.5046E+01
1.6528E+02	1.5535E-02	1.7051E+00	1.6028E+04	7.5015E+01
1.6540E+02	1.4840E-02	1.6288E+00	1.5311E+04	7.4960E+01
1.6551E+02	1.4542E-02	1.5961E+00	1.5004E+04	7.4910E+01
1.6566E+02	1.4441E-02	1.5851E+00	1.4900E+04	7.4843E+01
1.6573E+02	1.5282E-02	1.6774E+00	1.5768E+04	7.4811E+01
1.6579E+02	1.8946E-02	2.0795E+00	1.9548E+04	7.4784E+01
1.6582E+02	1.7064E-02	1.8730E+00	1.7607E+04	7.4770E+01
1.6587E+02	1.6271E-02	1.7859E+00	1.6788E+04	7.4748E+01
1.6591E+02	1.7360E-02	1.9055E+00	1.7912E+04	7.4730E+01
1.6598E+02	1.5873E-02	1.7423E+00	1.6378E+04	7.4698E+01
1.6601E+02	1.6418E-02	1.8021E+00	1.6940E+04	7.4685E+01
1.6605E+02	1.8746E-02	2.0575E+00	1.9341E+04	7.4667E+01
1.6609E+02	1.7061E-02	1.8726E+00	1.7603E+04	7.4649E+01
1.6612E+02	1.6565E-02	1.8182E+00	1.7092E+04	7.4635E+01
1.6617E+02	1.7753E-02	1.9486E+00	1.8317E+04	7.4613E+01
1.6624E+02	1.5425E-02	1.6930E+00	1.5915E+04	7.4581E+01
1.6630E+02	1.5424E-02	1.6929E+00	1.5914E+04	7.4555E+01
1.6637E+02	1.4086E-02	1.5461E+00	1.4534E+04	7.4523E+01
1.6642E+02	1.4036E-02	1.5406E+00	1.4482E+04	7.4501E+01
1.6655E+02	1.3044E-02	1.4317E+00	1.3458E+04	7.4443E+01
1.6676E+02	1.2547E-02	1.3771E+00	1.2945E+04	7.4349E+01
1.6711E+02	1.2096E-02	1.3277E+00	1.2481E+04	7.4193E+01

Table I. 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)
1.6750E+02	1.1696E-02	1.2837E+00	1.2067E+04	7.4020E+01
1.6785E+02	1.1445E-02	1.2562E+00	1.1809E+04	7.3866E+01
1.6810E+02	1.1789E-02	1.2939E+00	1.2163E+04	7.3756E+01
1.6834E+02	1.3023E-02	1.4294E+00	1.3437E+04	7.3651E+01
1.6855E+02	1.5795E-02	1.7336E+00	1.6297E+04	7.3559E+01
1.6875E+02	2.2181E-02	2.4346E+00	2.2886E+04	7.3472E+01
1.6893E+02	3.2431E-02	3.5597E+00	3.3462E+04	7.3394E+01
1.6905E+02	3.9958E-02	4.3858E+00	4.1227E+04	7.3342E+01
1.6914E+02	4.3027E-02	4.7227E+00	4.4394E+04	7.3303E+01
1.6920E+02	4.3769E-02	4.8041E+00	4.5160E+04	7.3277E+01
1.6927E+02	4.3124E-02	4.7334E+00	4.4495E+04	7.3246E+01
1.6936E+02	4.0450E-02	4.4398E+00	4.1735E+04	7.3207E+01
1.6948E+02	3.5149E-02	3.8579E+00	3.6265E+04	7.3156E+01
1.6959E+02	3.1185E-02	3.4229E+00	3.2176E+04	7.3108E+01
1.6967E+02	2.9748E-02	3.2652E+00	3.0694E+04	7.3074E+01
1.6972E+02	2.9648E-02	3.2542E+00	3.0590E+04	7.3052E+01
1.6981E+02	3.1232E-02	3.4280E+00	3.2224E+04	7.3013E+01
1.6996E+02	3.8016E-02	4.1726E+00	3.9224E+04	7.2949E+01
1.7007E+02	4.3759E-02	4.8030E+00	4.5149E+04	7.2902E+01
1.7016E+02	4.6928E-02	5.1509E+00	4.8419E+04	7.2863E+01
1.7024E+02	4.7917E-02	5.2594E+00	4.9440E+04	7.2829E+01
1.7031E+02	4.7471E-02	5.2104E+00	4.8979E+04	7.2799E+01
1.7037E+02	4.6133E-02	5.0636E+00	4.7599E+04	7.2773E+01
1.7049E+02	4.2170E-02	4.6286E+00	4.3510E+04	7.2722E+01
1.7060E+02	3.7266E-02	4.0903E+00	3.8450E+04	7.2675E+01
1.7074E+02	2.9588E-02	3.2476E+00	3.0528E+04	7.2616E+01
1.7090E+02	2.3395E-02	2.5679E+00	2.4139E+04	7.2548E+01
1.7099E+02	2.2304E-02	2.4481E+00	2.3013E+04	7.2510E+01
1.7106E+02	2.2749E-02	2.4969E+00	2.3472E+04	7.2480E+01
1.7113E+02	2.5027E-02	2.7470E+00	2.5822E+04	7.2450E+01
1.7119E+02	3.3396E-02	3.6656E+00	3.4457E+04	7.2425E+01
1.7120E+02	4.9590E-02	5.4431E+00	5.1166E+04	7.2421E+01
1.7123E+02	6.5190E-02	7.1553E+00	6.7262E+04	7.2408E+01
1.7125E+02	8.0295E-02	8.8133E+00	8.2847E+04	7.2400E+01
1.7135E+02	5.8305E-02	6.3997E+00	6.0158E+04	7.2357E+01
1.7140E+02	4.2753E-02	4.6927E+00	4.4112E+04	7.2336E+01

Table I. 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)
1.7145E+02	3.4383E-02	3.7739E+00	3.5476E+04	7.2315E+01
1.7154E+02	2.9034E-02	3.1868E+00	2.9956E+04	7.2277E+01
1.7178E+02	2.2494E-02	2.4689E+00	2.3208E+04	7.2176E+01
1.7195E+02	1.7687E-02	1.9414E+00	1.8249E+04	7.2105E+01
1.7199E+02	1.7439E-02	1.9141E+00	1.7993E+04	7.2088E+01
1.7216E+02	1.2980E-02	1.4247E+00	1.3392E+04	7.2017E+01
1.7222E+02	1.2533E-02	1.3757E+00	1.2931E+04	7.1992E+01
1.7232E+02	1.3969E-02	1.5333E+00	1.4413E+04	7.1950E+01
1.7237E+02	1.9069E-02	2.0930E+00	1.9675E+04	7.1929E+01
1.7243E+02	2.5408E-02	2.7888E+00	2.6215E+04	7.1904E+01
1.7244E+02	3.9770E-02	4.3652E+00	4.1034E+04	7.1900E+01
1.7246E+02	5.6163E-02	6.1645E+00	5.7948E+04	7.1892E+01
1.7252E+02	4.0016E-02	4.3922E+00	4.1288E+04	7.1867E+01
1.7257E+02	2.9665E-02	3.2561E+00	3.0608E+04	7.1846E+01
1.7261E+02	2.6099E-02	2.8646E+00	2.6928E+04	7.1829E+01
1.7265E+02	3.0606E-02	3.3593E+00	3.1578E+04	7.1812E+01
1.7271E+02	2.7980E-02	3.0711E+00	2.8869E+04	7.1787E+01
1.7273E+02	3.4467E-02	3.7832E+00	3.5562E+04	7.1779E+01
1.7276E+02	3.6745E-02	4.0332E+00	3.7913E+04	7.1767E+01
1.7282E+02	3.0158E-02	3.3102E+00	3.1116E+04	7.1742E+01
1.7285E+02	2.3719E-02	2.6034E+00	2.4473E+04	7.1729E+01
1.7290E+02	2.0301E-02	2.2283E+00	2.0947E+04	7.1709E+01
1.7293E+02	2.0103E-02	2.2065E+00	2.0742E+04	7.1696E+01
1.7296E+02	2.2480E-02	2.4674E+00	2.3194E+04	7.1684E+01
1.7299E+02	2.8126E-02	3.0871E+00	2.9019E+04	7.1671E+01
1.7301E+02	3.2781E-02	3.5980E+00	3.3822E+04	7.1663E+01
1.7305E+02	3.3523E-02	3.6795E+00	3.4589E+04	7.1646E+01
1.7310E+02	3.1393E-02	3.4457E+00	3.2390E+04	7.1626E+01
1.7316E+02	2.5102E-02	2.7553E+00	2.5900E+04	7.1601E+01
1.7321E+02	1.9802E-02	2.1735E+00	2.0432E+04	7.1580E+01
1.7326E+02	1.8217E-02	1.9995E+00	1.8796E+04	7.1560E+01
1.7330E+02	1.8266E-02	2.0049E+00	1.8847E+04	7.1543E+01
1.7337E+02	1.6433E-02	1.8037E+00	1.6955E+04	7.1514E+01
1.7342E+02	1.6037E-02	1.7602E+00	1.6546E+04	7.1494E+01
1.7344E+02	1.4996E-02	1.6460E+00	1.5473E+04	7.1485E+01
1.7350E+02	1.4451E-02	1.5861E+00	1.4910E+04	7.1461E+01

Table I. 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)
1.7356E+02	1.6579E-02	1.8197E+00	1.7106E+04	7.1436E+01
1.7364E+02	1.9302E-02	2.1187E+00	1.9916E+04	7.1403E+01
1.7366E+02	2.2125E-02	2.4285E+00	2.2828E+04	7.1395E+01
1.7372E+02	2.4353E-02	2.6730E+00	2.5126E+04	7.1370E+01
1.7378E+02	3.0098E-02	3.3035E+00	3.1054E+04	7.1345E+01
1.7382E+02	3.0246E-02	3.3198E+00	3.1207E+04	7.1329E+01
1.7388E+02	3.6336E-02	3.9883E+00	3.7491E+04	7.1304E+01
1.7395E+02	2.9748E-02	3.2652E+00	3.0694E+04	7.1276E+01
1.7401E+02	2.2913E-02	2.5150E+00	2.3641E+04	7.1251E+01
1.7405E+02	2.0932E-02	2.2975E+00	2.1597E+04	7.1235E+01
1.7413E+02	2.6428E-02	2.9008E+00	2.7268E+04	7.1202E+01
1.7420E+02	2.9696E-02	3.2595E+00	3.0640E+04	7.1173E+01
1.7427E+02	3.4697E-02	3.8084E+00	3.5800E+04	7.1145E+01
1.7429E+02	3.4103E-02	3.7431E+00	3.5186E+04	7.1137E+01
1.7435E+02	3.0685E-02	3.3680E+00	3.1660E+04	7.1112E+01
1.7438E+02	2.7515E-02	3.0200E+00	2.8389E+04	7.1100E+01
1.7444E+02	2.6920E-02	2.9548E+00	2.7775E+04	7.1076E+01
1.7450E+02	2.5235E-02	2.7698E+00	2.6037E+04	7.1051E+01
1.7456E+02	2.5978E-02	2.8514E+00	2.6803E+04	7.1027E+01
1.7463E+02	2.3996E-02	2.6338E+00	2.4759E+04	7.0998E+01
1.7468E+02	2.3549E-02	2.5848E+00	2.4298E+04	7.0978E+01
1.7487E+02	2.6222E-02	2.8781E+00	2.7055E+04	7.0901E+01
1.7494E+02	3.0034E-02	3.2966E+00	3.0989E+04	7.0872E+01
1.7499E+02	2.9985E-02	3.2912E+00	3.0938E+04	7.0852E+01
1.7505E+02	3.0875E-02	3.3889E+00	3.1857E+04	7.0828E+01
1.7514E+02	2.8200E-02	3.0952E+00	2.9096E+04	7.0791E+01
1.7525E+02	2.6762E-02	2.9374E+00	2.7613E+04	7.0747E+01
1.7533E+02	2.8445E-02	3.1222E+00	2.9349E+04	7.0715E+01
1.7540E+02	3.0376E-02	3.3341E+00	3.1342E+04	7.0687E+01
1.7549E+02	2.8988E-02	3.1818E+00	2.9910E+04	7.0650E+01
1.7559E+02	3.0869E-02	3.3882E+00	3.1850E+04	7.0610E+01
1.7567E+02	3.0323E-02	3.3283E+00	3.1287E+04	7.0578E+01
1.7570E+02	3.1066E-02	3.4098E+00	3.2053E+04	7.0566E+01
1.7630E+02	3.3783E-02	3.7081E+00	3.4857E+04	7.0326E+01
1.7700E+02	3.5632E-02	3.9110E+00	3.6764E+04	7.0048E+01
1.7750E+02	3.7837E-02	4.1531E+00	3.9040E+04	6.9850E+01

Table I. 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)
1.7800E+02	3.8738E-02	4.2519E+00	3.9969E+04	6.9654E+01
1.7850E+02	3.9437E-02	4.3286E+00	4.0690E+04	6.9459E+01
1.7900E+02	3.9534E-02	4.3393E+00	4.0791E+04	6.9265E+01
1.7950E+02	3.9531E-02	4.3390E+00	4.0787E+04	6.9072E+01
1.8000E+02	3.9428E-02	4.3276E+00	4.0681E+04	6.8880E+01
1.8050E+02	3.8321E-02	4.2062E+00	3.9539E+04	6.8689E+01
1.8100E+02	3.7817E-02	4.1508E+00	3.9018E+04	6.8500E+01
1.8150E+02	3.7112E-02	4.0734E+00	3.8291E+04	6.8311E+01
1.8200E+02	3.6407E-02	3.9960E+00	3.7564E+04	6.8123E+01
1.8250E+02	3.6203E-02	3.9737E+00	3.7354E+04	6.7937E+01
1.8300E+02	3.5699E-02	3.9184E+00	3.6834E+04	6.7751E+01
1.8350E+02	3.5295E-02	3.8740E+00	3.6417E+04	6.7566E+01
1.8400E+02	3.4992E-02	3.8407E+00	3.6104E+04	6.7383E+01
1.8450E+02	3.5290E-02	3.8734E+00	3.6411E+04	6.7200E+01
1.8500E+02	3.5287E-02	3.8731E+00	3.6408E+04	6.7018E+01
1.8550E+02	3.5284E-02	3.8728E+00	3.6406E+04	6.6838E+01
1.8600E+02	3.5382E-02	3.8835E+00	3.6506E+04	6.6658E+01
1.8650E+02	3.5680E-02	3.9162E+00	3.6813E+04	6.6479E+01
1.8700E+02	3.6078E-02	3.9599E+00	3.7224E+04	6.6302E+01
1.8750E+02	3.6275E-02	3.9816E+00	3.7428E+04	6.6125E+01
1.8800E+02	3.6874E-02	4.0473E+00	3.8045E+04	6.5949E+01
1.8850E+02	3.6871E-02	4.0470E+00	3.8043E+04	6.5774E+01
1.8900E+02	3.7068E-02	4.0687E+00	3.8246E+04	6.5600E+01
1.8950E+02	3.7366E-02	4.1013E+00	3.8553E+04	6.5427E+01
1.9000E+02	3.7964E-02	4.1670E+00	3.9170E+04	6.5255E+01
1.9100E+02	3.8158E-02	4.1883E+00	3.9371E+04	6.4913E+01
1.9200E+02	3.9655E-02	4.3525E+00	4.0915E+04	6.4575E+01
1.9300E+02	4.0149E-02	4.4068E+00	4.1425E+04	6.4241E+01
1.9400E+02	4.0843E-02	4.4830E+00	4.2141E+04	6.3909E+01
1.9500E+02	4.2038E-02	4.6142E+00	4.3374E+04	6.3582E+01
1.9600E+02	4.1932E-02	4.6024E+00	4.3264E+04	6.3257E+01
1.9700E+02	4.1525E-02	4.5578E+00	4.2844E+04	6.2936E+01
1.9800E+02	4.1718E-02	4.5791E+00	4.3044E+04	6.2618E+01
1.9900E+02	4.1112E-02	4.5125E+00	4.2418E+04	6.2304E+01
2.0000E+02	4.0005E-02	4.3910E+00	4.1276E+04	6.1992E+01
2.0100E+02	3.9499E-02	4.3354E+00	4.0754E+04	6.1684E+01

Table I. 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)
2.0200E+02	3.9193E-02	4.3018E+00	4.0438E+04	6.1378E+01
2.0300E+02	3.8787E-02	4.2573E+00	4.0019E+04	6.1076E+01
2.0400E+02	3.8181E-02	4.1908E+00	3.9394E+04	6.0777E+01
2.0500E+02	3.6876E-02	4.0475E+00	3.8048E+04	6.0480E+01
2.0600E+02	3.6770E-02	4.0359E+00	3.7939E+04	6.0186E+01
2.0700E+02	3.6265E-02	3.9805E+00	3.7417E+04	5.9896E+01
2.0800E+02	3.6459E-02	4.0018E+00	3.7618E+04	5.9608E+01
2.0900E+02	3.5954E-02	3.9463E+00	3.7097E+04	5.9323E+01
2.1000E+02	3.5150E-02	3.8580E+00	3.6267E+04	5.9040E+01
2.1100E+02	3.4944E-02	3.8355E+00	3.6055E+04	5.8760E+01
2.1200E+02	3.5238E-02	3.8678E+00	3.6358E+04	5.8483E+01
2.1300E+02	3.4734E-02	3.8124E+00	3.5838E+04	5.8209E+01
2.1400E+02	3.4429E-02	3.7790E+00	3.5523E+04	5.7937E+01
2.1500E+02	3.4224E-02	3.7565E+00	3.5312E+04	5.7667E+01
2.1550E+02	3.4521E-02	3.7890E+00	3.5618E+04	5.7533E+01
2.1600E+02	3.4318E-02	3.7668E+00	3.5409E+04	5.7400E+01
2.1650E+02	3.3817E-02	3.7118E+00	3.4892E+04	5.7268E+01
2.1700E+02	3.3814E-02	3.7115E+00	3.4889E+04	5.7136E+01
2.1750E+02	3.3911E-02	3.7222E+00	3.4989E+04	5.7004E+01
2.1800E+02	3.3809E-02	3.7109E+00	3.4883E+04	5.6873E+01
2.1850E+02	3.3308E-02	3.6559E+00	3.4366E+04	5.6743E+01
2.1900E+02	3.3903E-02	3.7213E+00	3.4981E+04	5.6614E+01
2.1950E+02	3.2904E-02	3.6115E+00	3.3949E+04	5.6485E+01
2.2000E+02	3.3599E-02	3.6879E+00	3.4667E+04	5.6356E+01
2.2050E+02	3.3198E-02	3.6438E+00	3.4253E+04	5.6229E+01
2.2100E+02	3.3594E-02	3.6873E+00	3.4661E+04	5.6101E+01
2.2150E+02	3.2794E-02	3.5995E+00	3.3836E+04	5.5975E+01
2.2200E+02	3.3290E-02	3.6539E+00	3.4347E+04	5.5849E+01
2.2250E+02	3.2888E-02	3.6098E+00	3.3933E+04	5.5723E+01
2.2300E+02	3.2686E-02	3.5877E+00	3.3725E+04	5.5598E+01
2.2350E+02	3.2584E-02	3.5765E+00	3.3620E+04	5.5474E+01
2.2400E+02	3.2582E-02	3.5762E+00	3.3617E+04	5.5350E+01
2.2450E+02	3.2579E-02	3.5759E+00	3.3614E+04	5.5227E+01
2.2500E+02	3.2676E-02	3.5866E+00	3.3715E+04	5.5104E+01
2.2550E+02	3.2574E-02	3.5753E+00	3.3609E+04	5.4982E+01
2.2600E+02	3.2970E-02	3.6188E+00	3.4018E+04	5.4860E+01

Table I. 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)
2.2650E+02	3.2967E-02	3.6185E+00	3.4015E+04	5.4739E+01
2.2700E+02	3.3463E-02	3.6729E+00	3.4526E+04	5.4619E+01
2.2750E+02	3.3659E-02	3.6945E+00	3.4729E+04	5.4499E+01
2.2800E+02	3.4553E-02	3.7925E+00	3.5651E+04	5.4379E+01
2.2850E+02	3.4849E-02	3.8250E+00	3.5956E+04	5.4260E+01
2.2900E+02	3.5344E-02	3.8794E+00	3.6467E+04	5.4142E+01
2.2950E+02	3.4246E-02	3.7589E+00	3.5334E+04	5.4024E+01
2.3000E+02	3.3148E-02	3.6384E+00	3.4202E+04	5.3906E+01
2.3050E+02	3.2250E-02	3.5398E+00	3.3275E+04	5.3789E+01
2.3100E+02	3.2148E-02	3.5286E+00	3.3169E+04	5.3673E+01
2.3150E+02	3.1747E-02	3.4846E+00	3.2756E+04	5.3557E+01
2.3200E+02	3.1446E-02	3.4516E+00	3.2445E+04	5.3441E+01
2.3250E+02	3.1941E-02	3.5059E+00	3.2956E+04	5.3327E+01
2.3300E+02	3.3232E-02	3.6476E+00	3.4288E+04	5.3212E+01
2.3350E+02	3.3627E-02	3.6910E+00	3.4696E+04	5.3098E+01
2.3400E+02	3.2630E-02	3.5815E+00	3.3667E+04	5.2985E+01
2.3450E+02	3.1931E-02	3.5048E+00	3.2946E+04	5.2872E+01
2.3500E+02	3.1531E-02	3.4608E+00	3.2533E+04	5.2759E+01
2.3550E+02	3.1230E-02	3.4278E+00	3.2222E+04	5.2647E+01
2.3600E+02	3.1128E-02	3.4166E+00	3.2117E+04	5.2536E+01
2.3650E+02	3.0827E-02	3.3836E+00	3.1807E+04	5.2425E+01
2.3700E+02	3.0427E-02	3.3397E+00	3.1394E+04	5.2314E+01
2.3750E+02	3.0425E-02	3.3394E+00	3.1392E+04	5.2204E+01
2.3800E+02	3.0621E-02	3.3610E+00	3.1594E+04	5.2094E+01
2.3850E+02	3.0321E-02	3.3280E+00	3.1284E+04	5.1985E+01
2.3900E+02	3.0020E-02	3.2950E+00	3.0974E+04	5.1876E+01
2.3950E+02	3.0316E-02	3.3275E+00	3.1279E+04	5.1768E+01
2.4000E+02	2.9816E-02	3.2727E+00	3.0764E+04	5.1660E+01
2.4050E+02	2.9516E-02	3.2397E+00	3.0454E+04	5.1553E+01
2.4100E+02	2.9613E-02	3.2504E+00	3.0554E+04	5.1446E+01
2.4150E+02	3.0008E-02	3.2937E+00	3.0962E+04	5.1339E+01
2.4200E+02	3.0105E-02	3.3044E+00	3.1062E+04	5.1233E+01
2.4250E+02	3.0003E-02	3.2932E+00	3.0957E+04	5.1128E+01
2.4300E+02	2.9306E-02	3.2166E+00	3.0237E+04	5.1022E+01
2.4350E+02	2.9403E-02	3.2273E+00	3.0337E+04	5.0918E+01
2.4400E+02	2.8705E-02	3.1507E+00	2.9617E+04	5.0813E+01

Table I. 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)
2.4450E+02	2.9497E-02	3.2377E+00	3.0435E+04	5.0709E+01
2.4500E+02	2.8999E-02	3.1829E+00	2.9920E+04	5.0606E+01
2.4550E+02	2.9195E-02	3.2045E+00	3.0123E+04	5.0503E+01
2.4600E+02	2.8795E-02	3.1606E+00	2.9710E+04	5.0400E+01
2.4650E+02	2.8793E-02	3.1604E+00	2.9708E+04	5.0298E+01
2.4700E+02	2.9486E-02	3.2364E+00	3.0423E+04	5.0196E+01
2.4750E+02	2.8292E-02	3.1054E+00	2.9191E+04	5.0095E+01
2.4800E+02	2.8786E-02	3.1596E+00	2.9701E+04	4.9994E+01
2.4850E+02	2.8486E-02	3.1267E+00	2.9392E+04	4.9893E+01
2.4900E+02	2.8286E-02	3.1046E+00	2.9184E+04	4.9793E+01
2.4950E+02	2.8383E-02	3.1153E+00	2.9284E+04	4.9693E+01
2.5000E+02	2.9472E-02	3.2349E+00	3.0408E+04	4.9594E+01
2.5100E+02	2.8773E-02	3.1581E+00	2.9687E+04	4.9396E+01
2.5200E+02	2.8371E-02	3.1141E+00	2.9273E+04	4.9200E+01
2.5300E+02	2.7970E-02	3.0700E+00	2.8859E+04	4.9006E+01
2.5400E+02	2.7470E-02	3.0151E+00	2.8343E+04	4.8813E+01
2.5500E+02	2.7961E-02	3.0691E+00	2.8850E+04	4.8621E+01
2.5600E+02	2.8155E-02	3.0903E+00	2.9050E+04	4.8431E+01
2.5700E+02	2.7259E-02	2.9919E+00	2.8125E+04	4.8243E+01
2.5800E+02	2.7254E-02	2.9915E+00	2.8120E+04	4.8056E+01
2.5900E+02	2.7250E-02	2.9910E+00	2.8116E+04	4.7870E+01
2.6000E+02	2.6949E-02	2.9579E+00	2.7805E+04	4.7686E+01
2.7500E+02	2.6204E-02	2.8761E+00	2.7036E+04	4.5085E+01
3.0000E+02	2.2562E-02	2.4764E+00	2.3279E+04	4.1328E+01
3.5000E+02	1.6725E-02	1.8358E+00	1.7257E+04	3.5424E+01
4.0000E+02	1.2635E-02	1.3869E+00	1.3037E+04	3.0996E+01
4.5000E+02	9.7768E-03	1.0731E+00	1.0087E+04	2.7552E+01
5.0000E+02	7.7400E-03	8.4955E-01	7.9859E+03	2.4797E+01
5.2500E+02	6.9407E-03	7.6182E-01	7.1612E+03	2.3616E+01
5.2695E+02	9.4585E-03	1.0382E+00	9.7591E+03	2.3529E+01
5.2877E+02	9.2449E-03	1.0147E+00	9.5387E+03	2.3448E+01
5.2950E+02	1.0667E-02	1.1708E+00	1.1006E+04	2.3415E+01
5.2975E+02	1.3370E-02	1.4675E+00	1.3794E+04	2.3404E+01
5.3002E+02	2.4535E-02	2.6930E+00	2.5314E+04	2.3392E+01
5.3026E+02	3.9896E-02	4.3790E+00	4.1163E+04	2.3382E+01
5.3043E+02	4.0749E-02	4.4726E+00	4.2044E+04	2.3374E+01

Table I. 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)
5.3054E+02	3.9469E-02	4.3321E+00	4.0723E+04	2.3369E+01
5.3100E+02	2.0054E-02	2.2012E+00	2.0692E+04	2.3349E+01
5.3116E+02	1.5645E-02	1.7172E+00	1.6142E+04	2.3342E+01
5.3149E+02	1.1450E-02	1.2567E+00	1.1814E+04	2.3328E+01
5.3192E+02	1.0027E-02	1.1006E+00	1.0346E+04	2.3309E+01
5.3352E+02	9.4585E-03	1.0382E+00	9.7591E+03	2.3239E+01
5.3404E+02	1.2089E-02	1.3270E+00	1.2474E+04	2.3216E+01
5.3444E+02	1.9130E-02	2.0997E+00	1.9738E+04	2.3199E+01
5.3474E+02	2.0837E-02	2.2871E+00	2.1499E+04	2.3186E+01
5.3523E+02	2.1121E-02	2.3183E+00	2.1793E+04	2.3165E+01
5.3583E+02	1.8348E-02	2.0138E+00	1.8931E+04	2.3139E+01
5.3610E+02	2.1334E-02	2.3417E+00	2.2012E+04	2.3127E+01
5.3640E+02	1.8917E-02	2.0763E+00	1.9518E+04	2.3114E+01
5.3689E+02	1.1236E-02	1.2333E+00	1.1593E+04	2.3093E+01
5.3721E+02	1.4863E-02	1.6314E+00	1.5336E+04	2.3079E+01
5.3746E+02	1.4294E-02	1.5690E+00	1.4749E+04	2.3069E+01
5.3762E+02	1.5361E-02	1.6860E+00	1.5849E+04	2.3062E+01
5.3789E+02	1.8205E-02	1.9982E+00	1.8784E+04	2.3050E+01
5.3822E+02	1.5930E-02	1.7485E+00	1.6436E+04	2.3036E+01
5.4142E+02	1.5645E-02	1.7172E+00	1.6142E+04	2.2900E+01
5.4505E+02	1.5290E-02	1.6782E+00	1.5776E+04	2.2747E+01
5.5037E+02	1.5148E-02	1.6626E+00	1.5629E+04	2.2527E+01
5.5528E+02	1.4792E-02	1.6236E+00	1.5262E+04	2.2328E+01
5.6003E+02	1.5076E-02	1.6548E+00	1.5555E+04	2.2139E+01
5.6500E+02	1.4650E-02	1.6080E+00	1.5115E+04	2.1944E+01
6.0000E+02	1.2699E-02	1.3939E+00	1.3103E+04	2.0664E+01
7.0000E+02	8.6846E-03	9.5323E-01	8.9606E+03	1.7712E+01
8.0000E+02	6.1919E-03	6.7963E-01	6.3886E+03	1.5498E+01
9.0000E+02	4.5671E-03	5.0129E-01	4.7122E+03	1.3776E+01
1.0000E+03	3.4645E-03	3.8027E-01	3.5746E+03	1.2398E+01
1.2500E+03	1.9101E-03	2.0966E-01	1.9708E+03	9.9187E+00
1.5000E+03	1.1650E-03	1.2788E-01	1.2021E+03	8.2656E+00
1.7500E+03	7.6393E-04	8.3849E-02	7.8820E+02	7.0848E+00
2.0000E+03	5.2888E-04	5.8050E-02	5.4569E+02	6.1992E+00
2.2500E+03	3.8194E-04	4.1923E-02	3.9408E+02	5.5104E+00
2.4700E+03	2.9500E-04	3.2380E-02	3.0438E+02	5.0196E+00

Table I. 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)
2.4710E+03	4.7566E-04	5.2209E-02	4.9078E+02	5.0176E+00
2.4720E+03	7.3804E-04	8.1008E-02	7.6149E+02	5.0155E+00
2.4731E+03	4.6228E-03	5.0740E-01	4.7697E+03	5.0133E+00
2.4740E+03	1.3092E-03	1.4370E-01	1.3508E+03	5.0115E+00
2.4750E+03	5.9525E-04	6.5335E-02	6.1417E+02	5.0095E+00
2.4760E+03	6.1310E-04	6.7294E-02	6.3258E+02	5.0074E+00
2.4770E+03	1.3324E-03	1.4625E-01	1.3747E+03	5.0054E+00
2.4779E+03	3.1298E-03	3.4352E-01	3.2292E+03	5.0037E+00
2.4784E+03	2.8620E-03	3.1414E-01	2.9530E+03	5.0025E+00
2.4788E+03	2.9513E-03	3.2393E-01	3.0450E+03	5.0019E+00
2.4793E+03	2.1124E-03	2.3186E-01	2.1795E+03	5.0008E+00
2.4800E+03	1.1307E-03	1.2411E-01	1.1666E+03	4.9994E+00
2.4810E+03	1.8206E-03	1.9983E-01	1.8784E+03	4.9974E+00
2.4816E+03	1.5707E-03	1.7240E-01	1.6206E+03	4.9962E+00
2.4820E+03	1.6001E-03	1.7563E-01	1.6510E+03	4.9953E+00
2.4840E+03	1.4698E-03	1.6133E-01	1.5165E+03	4.9913E+00
2.4860E+03	1.4636E-03	1.6064E-01	1.5101E+03	4.9873E+00
2.4880E+03	1.3859E-03	1.5212E-01	1.4300E+03	4.9833E+00
2.4900E+03	1.4395E-03	1.5800E-01	1.4852E+03	4.9793E+00
2.4920E+03	1.5466E-03	1.6975E-01	1.5957E+03	4.9753E+00
2.4940E+03	1.5644E-03	1.7171E-01	1.6141E+03	4.9713E+00
2.4960E+03	1.5823E-03	1.7367E-01	1.6326E+03	4.9673E+00
2.4980E+03	1.5591E-03	1.7113E-01	1.6086E+03	4.9633E+00
2.5000E+03	1.5055E-03	1.6525E-01	1.5534E+03	4.9594E+00
2.5020E+03	1.4279E-03	1.5673E-01	1.4733E+03	4.9554E+00
2.5040E+03	1.3681E-03	1.5016E-01	1.4116E+03	4.9514E+00
2.5060E+03	1.3092E-03	1.4370E-01	1.3508E+03	4.9475E+00
2.5080E+03	1.2556E-03	1.3782E-01	1.2956E+03	4.9435E+00
2.5100E+03	1.2316E-03	1.3518E-01	1.2707E+03	4.9396E+00
2.7500E+03	9.5321E-04	1.0462E-01	9.8350E+02	4.5085E+00
3.0000E+03	7.6214E-04	8.3653E-02	7.8636E+02	4.1328E+00
3.5000E+03	5.0668E-04	5.5613E-02	5.2278E+02	3.5424E+00
4.0000E+03	3.5248E-04	3.8688E-02	3.6368E+02	3.0996E+00
4.5000E+03	2.5459E-04	2.7944E-02	2.6268E+02	2.7552E+00
5.0000E+03	1.8969E-04	2.0820E-02	1.9572E+02	2.4797E+00
6.0000E+03	1.1338E-04	1.2445E-02	1.1699E+02	2.0664E+00

Table I. 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)
7.0000E+03	7.3101E-05	8.0237E-03	7.5424E+01	1.7712E+00
8.0000E+03	4.9882E-05	5.4751E-03	5.1467E+01	1.5498E+00
9.0000E+03	3.5571E-05	3.9043E-03	3.6702E+01	1.3776E+00
1.0000E+04	2.6105E-05	2.8653E-03	2.6934E+01	1.2398E+00
1.2500E+04	1.3377E-05	1.4683E-03	1.3802E+01	9.9187E-01
1.5000E+04	7.7108E-06	8.4634E-04	7.9558E+00	8.2656E-01
1.7500E+04	4.8421E-06	5.3147E-04	4.9959E+00	7.0848E-01
2.0000E+04	3.2363E-06	3.5522E-04	3.3391E+00	6.1992E-01
2.2500E+04	2.2686E-06	2.4900E-04	2.3406E+00	5.5104E-01
2.5000E+04	1.6510E-06	1.8122E-04	1.7035E+00	4.9594E-01
2.7500E+04	1.2336E-06	1.3540E-04	1.2728E+00	4.5085E-01
3.0000E+04	9.3997E-07	1.0317E-04	9.6984E-01	4.1328E-01
3.5000E+04	5.7955E-07	6.3612E-05	5.9796E-01	3.5424E-01
4.0000E+04	3.8149E-07	4.1873E-05	3.9361E-01	3.0996E-01
4.5000E+04	2.6384E-07	2.8959E-05	2.7222E-01	2.7552E-01
5.0000E+04	1.8965E-07	2.0817E-05	1.9568E-01	2.4797E-01
6.0000E+04	1.0653E-07	1.1693E-05	1.0991E-01	2.0664E-01
7.0000E+04	6.5286E-08	7.1659E-06	6.7361E-02	1.7712E-01
8.0000E+04	4.2713E-08	4.6882E-06	4.4070E-02	1.5498E-01
9.0000E+04	2.9367E-08	3.2233E-06	3.0300E-02	1.3776E-01
1.0000E+05	2.0994E-08	2.3044E-06	2.1662E-02	1.2398E-01

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

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

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

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

where $E_K = 539.84$ and 2483.7 eV for oxygen and sulfur atoms, respectively.

