

Spectral directional emissivity ϵ_{λ} determined under various angles with respect to the surface normal
Sample: Nextel 811-21 at 25 °C
Uncertainty is given as standard uncertainty ($k=1$)

Wavenumber / cm-1	$\epsilon_{\lambda}(10^{\circ})$	$\epsilon_{\lambda}(10^{\circ})$	$\epsilon_{\lambda}(20^{\circ})$	$\epsilon_{\lambda}(20^{\circ})$	$\epsilon_{\lambda}(30^{\circ})$	$\epsilon_{\lambda}(30^{\circ})$	$\epsilon_{\lambda}(40^{\circ})$	$\epsilon_{\lambda}(40^{\circ})$	$\epsilon_{\lambda}(50^{\circ})$	$\epsilon_{\lambda}(50^{\circ})$	$\epsilon_{\lambda}(60^{\circ})$	$\epsilon_{\lambda}(60^{\circ})$	$\epsilon_{\lambda}(70^{\circ})$	$\epsilon_{\lambda}(70^{\circ})$	Wavelength / μm
501.46	0.9725	0.0211	0.9965	0.0232	0.9762	0.0241	0.9767	0.0221	1.0055	0.0190	0.9443	0.0195	0.8833	0.0239	19.942
511.10	0.9699	0.0193	1.0172	0.0202	0.9776	0.0255	0.9733	0.0191	0.9878	0.0194	0.9369	0.0194	0.8834	0.0257	19.566
520.75	0.9694	0.0184	1.0036	0.0221	0.9761	0.0222	0.9668	0.0195	0.9841	0.0192	0.9405	0.0194	0.8872	0.0210	19.203
530.39	0.9756	0.0187	1.0023	0.0208	0.9788	0.0204	0.9723	0.0189	0.9853	0.0193	0.9435	0.0186	0.8937	0.0198	18.854
540.03	0.9735	0.0173	0.9965	0.0184	0.9824	0.0205	0.9750	0.0177	0.9790	0.0178	0.9488	0.0173	0.8962	0.0191	18.517
549.68	0.9749	0.0161	0.9920	0.0179	0.9797	0.0182	0.9736	0.0166	0.9764	0.0170	0.9480	0.0164	0.8990	0.0175	18.193
559.32	0.9748	0.0156	0.9915	0.0170	0.9769	0.0173	0.9744	0.0159	0.9772	0.0159	0.9481	0.0158	0.9025	0.0173	17.879
568.96	0.9742	0.0157	0.9870	0.0169	0.9765	0.0169	0.9735	0.0159	0.9755	0.0162	0.9495	0.0160	0.9035	0.0169	17.576
578.61	0.9726	0.0166	0.9856	0.0176	0.9770	0.0173	0.9719	0.0167	0.9733	0.0167	0.9482	0.0168	0.9045	0.0175	17.283
588.25	0.9746	0.0164	0.9861	0.0170	0.9756	0.0168	0.9699	0.0167	0.9699	0.0166	0.9501	0.0166	0.9040	0.0174	17.000
597.89	0.9729	0.0153	0.9831	0.0158	0.9752	0.0159	0.9715	0.0154	0.9704	0.0154	0.9498	0.0153	0.9055	0.0162	16.725
607.54	0.9717	0.0147	0.9848	0.0153	0.9756	0.0152	0.9703	0.0148	0.9703	0.0150	0.9517	0.0149	0.9069	0.0156	16.460
617.18	0.9727	0.0149	0.9833	0.0157	0.9760	0.0157	0.9702	0.0152	0.9720	0.0152	0.9511	0.0150	0.9074	0.0158	16.203
626.82	0.9735	0.0141	0.9833	0.0149	0.9751	0.0151	0.9696	0.0144	0.9707	0.0145	0.9541	0.0143	0.9085	0.0150	15.953
636.47	0.9729	0.0157	0.9851	0.0163	0.9757	0.0165	0.9706	0.0159	0.9707	0.0161	0.9534	0.0160	0.9097	0.0164	15.712
646.11	0.9739	0.0137	0.9846	0.0143	0.9756	0.0143	0.9699	0.0137	0.9697	0.0138	0.9524	0.0138	0.9093	0.0146	15.477
655.75	0.9749	0.0135	0.9843	0.0141	0.9750	0.0144	0.9710	0.0137	0.9704	0.0139	0.9529	0.0137	0.9103	0.0144	15.250
665.40	0.9733	0.0133	0.9832	0.0139	0.9762	0.0141	0.9698	0.0137	0.9692	0.0137	0.9515	0.0135	0.9096	0.0140	15.029
675.04	0.9726	0.0132	0.9831	0.0140	0.9745	0.0140	0.9703	0.0134	0.9687	0.0136	0.9511	0.0133	0.9099	0.0139	14.814
684.68	0.9719	0.0131	0.9818	0.0139	0.9741	0.0139	0.9693	0.0134	0.9695	0.0133	0.9512	0.0132	0.9094	0.0138	14.605
694.33	0.9715	0.0133	0.9825	0.0141	0.9736	0.0143	0.9679	0.0136	0.9684	0.0136	0.9496	0.0134	0.9090	0.0139	14.402
703.97	0.9707	0.0129	0.9816	0.0138	0.9736	0.0137	0.9682	0.0132	0.9684	0.0132	0.9485	0.0131	0.9082	0.0138	14.205
713.61	0.9725	0.0126	0.9815	0.0135	0.9737	0.0132	0.9681	0.0128	0.9673	0.0130	0.9478	0.0127	0.9081	0.0133	14.013
723.26	0.9707	0.0127	0.9808	0.0135	0.9726	0.0134	0.9679	0.0129	0.9670	0.0130	0.9471	0.0128	0.9080	0.0135	13.826
732.90	0.9719	0.0121	0.9801	0.0131	0.9729	0.0130	0.9671	0.0123	0.9663	0.0123	0.9463	0.0122	0.9086	0.0128	13.644
742.54	0.9716	0.0120	0.9790	0.0131	0.9729	0.0125	0.9669	0.0121	0.9671	0.0123	0.9454	0.0121	0.9070	0.0125	13.467
752.19	0.9705	0.0117	0.9798	0.0131	0.9720	0.0122	0.9672	0.0120	0.9657	0.0118	0.9452	0.0118	0.9079	0.0124	13.295
761.83	0.9714	0.0116	0.9797	0.0128	0.9720	0.0122	0.9672	0.0118	0.9662	0.0117	0.9429	0.0117	0.9070	0.0123	13.126
771.47	0.9735	0.0115	0.9824	0.0124	0.9744	0.0119	0.9696	0.0118	0.9691	0.0116	0.9472	0.0116	0.9130	0.0121	12.962
781.12	0.9734	0.0113	0.9815	0.0124	0.9750	0.0119	0.9703	0.0114	0.9694	0.0115	0.9468	0.0113	0.9124	0.0118	12.802
790.76	0.9719	0.0112	0.9800	0.0125	0.9740	0.0118	0.9676	0.0113	0.9679	0.0114	0.9453	0.0113	0.9122	0.0118	12.646
800.40	0.9707	0.0110	0.9785	0.0123	0.9718	0.0116	0.9671	0.0113	0.9673	0.0112	0.9455	0.0111	0.9101	0.0116	12.494
810.05	0.9705	0.0108	0.9785	0.0120	0.9719	0.0112	0.9651	0.0109	0.9656	0.0109	0.9434	0.0109	0.9104	0.0114	12.345
819.69	0.9700	0.0106	0.9767	0.0120	0.9712	0.0111	0.9648	0.0109	0.9648	0.0108	0.9436	0.0107	0.9104	0.0113	12.200
829.34	0.9691	0.0105	0.9765	0.0117	0.9707	0.0108	0.9660	0.0107	0.9642	0.0108	0.9438	0.0106	0.9096	0.0111	12.058
838.98	0.9693	0.0111	0.9757	0.0122	0.9706	0.0118	0.9641	0.0113	0.9639	0.0113	0.9425	0.0112	0.9087	0.0116	11.919
848.62	0.9687	0.0102	0.9760	0.0114	0.9705	0.0107	0.9637	0.0105	0.9638	0.0105	0.9439	0.0103	0.9101	0.0108	11.784
858.27	0.9692	0.0102	0.9766	0.0116	0.9695	0.0108	0.9643	0.0103	0.9636	0.0104	0.9434	0.0102	0.9105	0.0107	11.651
867.91	0.9691	0.0100	0.9760	0.0110	0.9691	0.0107	0.9639	0.0102	0.9624	0.0102	0.9431	0.0101	0.9094	0.0105	11.522
877.55	0.9686	0.0098	0.9759	0.0110	0.9690	0.0104	0.9643	0.0099	0.9626	0.0100	0.9439	0.0099	0.9101	0.0104	11.395
887.20	0.9682	0.0098	0.9758	0.0109	0.9687	0.0104	0.9631	0.0101	0.9628	0.0100	0.9435	0.0099	0.9094	0.0103	11.271
896.84	0.9687	0.0095	0.9758	0.0108	0.9691	0.0102	0.9633	0.0098	0.9619	0.0099	0.9440	0.0096	0.9103	0.0100	11.150
906.48	0.9681	0.0094	0.9757	0.0106	0.9691	0.0101	0.9636	0.0095	0.9619	0.0097	0.9439	0.0094	0.9103	0.0099	11.032
916.13	0.9687	0.0097	0.9755	0.0106	0.9689	0.0105	0.9632	0.0099	0.9618	0.0099	0.9447	0.0097	0.9107	0.0101	10.916
925.77	0.9671	0.0095	0.9755	0.0107	0.9681	0.0102	0.9626	0.0098	0.9617	0.0099	0.9437	0.0096	0.9104	0.0100	10.802
935.41	0.9668	0.0100	0.9746	0.0110	0.9686	0.0107	0.9623	0.0103	0.9611	0.0104	0.9442	0.0101	0.9108	0.0104	10.690
945.06	0.9680	0.0092	0.9744	0.0102	0.9675	0.0100	0.9625	0.0095	0.9620	0.0097	0.9457	0.0094	0.9109	0.0098	10.581
954.70	0.9664	0.0099	0.9750	0.0110	0.9676	0.0107	0.9625	0.0102	0.9607	0.0103	0.9441	0.0100	0.9102	0.0103	10.475
964.34	0.9668	0.0087	0.9753	0.0096	0.9684	0.0098	0.9620	0.0089	0.9606	0.0091	0.9448	0.0088	0.9107	0.0092	10.370
973.99	0.9666	0.0093	0.9746	0.0102	0.9668	0.0100	0.9619	0.0094	0.9597	0.0097	0.9457	0.0093	0.9106	0.0097	10.267
983.63	0.9658	0.0090	0.9735	0.0098	0.9660	0.0101	0.9609	0.0093	0.9598	0.0093	0.9443	0.0091	0.9105	0.0094	10.166
993.27	0.9651	0.0084	0.9729	0.0092	0.9649	0.0092	0.9602	0.0087	0.9579	0.0088	0.9442	0.0085	0.9102	0.0087	10.068
1002.92	0.9636	0.0095	0.9715	0.0101	0.9649	0.0103	0.9598	0.0097	0.9576	0.0098	0.9444	0.0095	0.9098	0.0098	9.971
1012.56	0.9660	0.0084	0.9728	0.0092	0.9660	0.0093	0.9611	0.0085	0.9589	0.0087	0.9454	0.0084	0.9116	0.0087	9.876
1022.20	0.9682	0.0083	0.9754	0.0091	0.9676	0.0093	0.9624	0.0088	0.9614	0.0086	0.9469	0.0084	0.9137	0.0087	9.783
1031.85	0.9684	0.0089	0.9760	0.0096	0.9681	0.0100	0.9629	0.0090	0.9618	0.0092	0.9488	0.0089	0.9153	0.0091	9.691
1041.49	0.9690	0.0080	0.9759	0.0086	0.9670	0.0089	0.9633	0.0082	0.9609	0.0083	0.9484	0.0080	0.9151	0.0084	9.602
1051.13	0.9676	0.0091	0.9753	0.0101	0.9679	0.0101	0.9634	0.0095	0.9611	0.0095	0.9481	0.0092	0.9144	0.0094	9.514
1060.78	0.9680	0.0077	0.9739	0.0087	0.9657	0.0086	0.9618	0.0079	0.9600	0.0080	0.9473	0.0077	0.9142	0.0082	9.427
1070.42	0.9676	0.0077	0.9741	0.0086	0.9670	0.0087	0.9613	0.0081	0.9600	0.0083	0.9482	0.0077	0.9149	0.0080	9.342
1080.06	0.9677	0.0083	0.9759	0.0089	0.9678	0.0091	0.9628	0.0086	0.9619	0.0088	0.9495	0.0083	0.9157	0.0087	9.259
1089.71	0.9692	0.0082	0.9772	0.0091	0.9682	0.0091	0.9638	0.0085	0.9621	0.0085	0.9496	0.0081	0.9172	0.0084	9.177
1099.35	0.9681	0.0090	0.9749	0.0098	0.9678	0.0098	0.9625	0.0092	0.9611	0.0092	0.9489	0.0090	0.9162	0.0092	9.096
1108.99	0.9667	0.0078	0.9732	0.0085	0.9672	0.0089	0.9617	0.0081	0.9605	0.0082	0.9477	0.0078	0.9155	0.0080	9.017
1118.64	0.9652	0.0086	0.9722	0.0093	0.9644	0.0094	0.9592	0.0088	0.9580	0.0090	0.9473	0.0085	0.9140	0.0088	8.939
1128.28	0.9652	0.0085	0.9731	0.0093	0.9647	0.0095	0.9595	0.0087	0.9576	0.0089	0.9454	0.0087	0.9129	0.0088	8.863
1137.92	0.9666	0.0086	0.9727	0.0091	0.9655	0.0									

1668.31	0.9633	0.0087	0.9724	0.0096	0.9592	0.0106	0.9569	0.0087	0.9526	0.0090	0.9432	0.0085	0.9153	0.0086	5.994
1677.96	0.9644	0.0082	0.9712	0.0086	0.9606	0.0091	0.9571	0.0080	0.9540	0.0086	0.9414	0.0080	0.9168	0.0083	5.960
1687.60	0.9711	0.0154	0.9764	0.0156	0.9627	0.0160	0.9620	0.0154	0.9559	0.0163	0.9484	0.0154	0.9221	0.0153	5.926
1697.24	0.9700	0.0084	0.9788	0.0093	0.9688	0.0107	0.9639	0.0086	0.9623	0.0092	0.9554	0.0087	0.9322	0.0089	5.892
1706.89	0.9679	0.0201	0.9770	0.0202	0.9652	0.0218	0.9612	0.0202	0.9638	0.0206	0.9575	0.0201	0.9299	0.0202	5.859
1716.53	0.9686	0.0071	0.9734	0.0071	0.9653	0.0080	0.9627	0.0074	0.9560	0.0079	0.9519	0.0068	0.9279	0.0074	5.826
1726.17	0.9706	0.0124	0.9813	0.0132	0.9668	0.0152	0.9623	0.0127	0.9580	0.0129	0.9564	0.0124	0.9310	0.0126	5.793
1735.82	0.9772	0.0069	0.9857	0.0072	0.9753	0.0089	0.9691	0.0075	0.9685	0.0082	0.9690	0.0076	0.9442	0.0072	5.761
1745.46	0.9828	0.0149	0.9912	0.0156	0.9802	0.0154	0.9815	0.0153	0.9785	0.0153	0.9793	0.0149	0.9585	0.0155	5.729
1755.10	0.9811	0.0161	0.9912	0.0162	0.9792	0.0169	0.9783	0.0164	0.9756	0.0168	0.9756	0.0160	0.9540	0.0165	5.698
1764.75	0.9788	0.0116	0.9877	0.0122	0.9781	0.0136	0.9704	0.0126	0.9751	0.0120	0.9708	0.0123	0.9486	0.0119	5.667
1774.39	0.9778	0.0276	0.9845	0.0277	0.9741	0.0283	0.9725	0.0277	0.9704	0.0282	0.9676	0.0277	0.9464	0.0278	5.636
1784.03	0.9789	0.0141	0.9833	0.0143	0.9731	0.0152	0.9699	0.0140	0.9652	0.0152	0.9708	0.0138	0.9399	0.0140	5.605
1793.68	0.9722	0.0251	0.9835	0.0256	0.9739	0.0255	0.9658	0.0258	0.9671	0.0256	0.9638	0.0252	0.9398	0.0251	5.575
1803.32	0.9752	0.0058	0.9802	0.0059	0.9691	0.0077	0.9633	0.0057	0.9684	0.0083	0.9637	0.0052	0.9399	0.0059	5.545
1812.96	0.9720	0.0062	0.9788	0.0067	0.9699	0.0082	0.9649	0.0067	0.9645	0.0096	0.9600	0.0053	0.9374	0.0053	5.516
1822.61	0.9706	0.0070	0.9842	0.0092	0.9656	0.0082	0.9610	0.0082	0.9626	0.0097	0.9544	0.0084	0.9326	0.0072	5.487
1832.25	0.9696	0.0109	0.9742	0.0115	0.9642	0.0122	0.9577	0.0127	0.9603	0.0122	0.9552	0.0109	0.9320	0.0109	5.458
1841.89	0.9669	0.0366	0.9785	0.0368	0.9649	0.0378	0.9616	0.0370	0.9579	0.0368	0.9677	0.0369	0.9382	0.0370	5.429
1851.54	0.9654	0.0235	0.9704	0.0235	0.9644	0.0243	0.9581	0.0238	0.9597	0.0247	0.9530	0.0235	0.9302	0.0235	5.401
1861.18	0.9645	0.0247	0.9766	0.0250	0.9613	0.0260	0.9561	0.0249	0.9522	0.0250	0.9567	0.0246	0.9337	0.0248	5.373
1870.82	0.9653	0.0286	0.9761	0.0291	0.9640	0.0294	0.9613	0.0287	0.9599	0.0288	0.9519	0.0287	0.9343	0.0286	5.345
1880.47	0.9670	0.0157	0.9705	0.0166	0.9651	0.0181	0.9536	0.0166	0.9584	0.0170	0.9549	0.0159	0.9250	0.0159	5.318
1890.11	0.9688	0.0089	0.9652	0.0080	0.9545	0.0136	0.9567	0.0102	0.9497	0.0108	0.9629	0.0083	0.9315	0.0097	5.291
1899.75	0.9654	0.0113	0.9731	0.0110	0.9611	0.0132	0.9549	0.0114	0.9528	0.0143	0.9532	0.0110	0.9292	0.0116	5.264
1909.40	0.9711	0.0488	0.9742	0.0491	0.9603	0.0491	0.9556	0.0488	0.9501	0.0489	0.9527	0.0492	0.9163	0.0491	5.237
1919.04	0.9594	0.0305	0.9734	0.0304	0.9596	0.0319	0.9539	0.0312	0.9506	0.0307	0.9501	0.0307	0.9285	0.0307	5.211
1928.69	0.9630	0.0123	0.9781	0.0143	0.9513	0.0126	0.9507	0.0135	0.9626	0.0151	0.9556	0.0122	0.9254	0.0124	5.185
1938.33	0.9674	0.0393	0.9747	0.0389	0.9507	0.0406	0.9441	0.0399	0.9594	0.0399	0.9580	0.0398	0.9317	0.0398	5.159
1947.97	0.9577	0.0076	0.9768	0.0085	0.9533	0.0142	0.9565	0.0090	0.9518	0.0118	0.9569	0.0071	0.9270	0.0080	5.134
1957.62	0.9683	0.0169	0.9795	0.0165	0.9601	0.0169	0.9403	0.0153	0.9539	0.0169	0.9593	0.0163	0.9318	0.0165	5.108
1967.26	0.9648	0.0130	0.9663	0.0144	0.9464	0.0169	0.9433	0.0125	0.9399	0.0171	0.9451	0.0114	0.9247	0.0133	5.083
1976.90	0.9586	0.0280	0.9912	0.0267	0.9553	0.0289	0.9604	0.0270	0.9674	0.0303	0.9759	0.0266	0.9315	0.0273	5.058
1986.55	0.9528	0.0623	0.9665	0.0627	0.9560	0.0652	0.9528	0.0626	0.9582	0.0629	0.9503	0.0623	0.9276	0.0624	5.034
1996.19	0.9730	0.0553	0.9751	0.0546	0.9539	0.0550	0.9533	0.0545	0.9449	0.0553	0.9765	0.0546	0.9292	0.0555	5.010