

Spectral directional emissivity ϵ_{λ} determined under various angles with respect to the surface normal
Sample: Herberts 1534 at 120 °C
Uncertainty is given as standard uncertainty ($k=1$)

Wavenumber / cm-1	$\epsilon_{\lambda}(10^{\circ})$	$u(10^{\circ})$	$\epsilon_{\lambda}(20^{\circ})$	$u(20^{\circ})$	$\epsilon_{\lambda}(30^{\circ})$	$u(30^{\circ})$	$\epsilon_{\lambda}(40^{\circ})$	$u(40^{\circ})$	$\epsilon_{\lambda}(50^{\circ})$	$u(50^{\circ})$	$\epsilon_{\lambda}(60^{\circ})$	$u(60^{\circ})$	$\epsilon_{\lambda}(70^{\circ})$	$u(70^{\circ})$	Wavelength / μm
100.29	0.9416	0.0511	0.9417	0.0511	0.9180	0.0193	0.9180	0.0193	0.8909	0.0141	0.8929	0.0144	0.7821	0.0614	99.709
109.94	0.8381	0.1203	0.8381	0.1203	0.9702	0.1206	0.9702	0.1206	0.9394	0.1250	0.9442	0.1260	0.7998	0.1242	90.963
119.58	0.9347	0.0393	0.9347	0.0393	0.9389	0.0377	0.9389	0.0377	0.8743	0.0384	0.8860	0.0385	0.8383	0.0336	83.627
129.22	0.9374	0.0185	0.9375	0.0185	0.9245	0.0258	0.9245	0.0258	0.9101	0.0223	0.9012	0.0229	0.7874	0.0375	77.386
138.87	0.8965	0.0193	0.8965	0.0193	0.9606	0.0063	0.9606	0.0063	0.9265	0.0177	0.9197	0.0207	0.8105	0.0092	72.012
148.51	0.8955	0.0242	0.8955	0.0242	0.9272	0.0175	0.9272	0.0175	0.9076	0.0246	0.9055	0.0256	0.8245	0.0228	67.336
158.15	0.9295	0.0085	0.9295	0.0085	0.8960	0.0189	0.8960	0.0189	0.8852	0.0164	0.8853	0.0164	0.7592	0.0119	63.230
167.80	0.9062	0.0335	0.9062	0.0335	0.9229	0.0315	0.9229	0.0315	0.9035	0.0334	0.9001	0.0343	0.8022	0.0337	59.596
177.44	0.9403	0.0144	0.9403	0.0144	0.9238	0.0173	0.9238	0.0173	0.8874	0.0152	0.8843	0.0150	0.8165	0.0176	56.357
187.08	0.9233	0.0172	0.9234	0.0172	0.9115	0.0155	0.9115	0.0155	0.8861	0.0145	0.8867	0.0145	0.7820	0.0168	53.452
196.73	0.9201	0.0131	0.9201	0.0131	0.9273	0.0098	0.9273	0.0098	0.8843	0.0101	0.8833	0.0100	0.8034	0.0143	50.832
206.37	0.9221	0.0094	0.9221	0.0094	0.9203	0.0106	0.9203	0.0106	0.9072	0.0059	0.9068	0.0060	0.7984	0.0093	48.457
216.01	0.9238	0.0092	0.9239	0.0092	0.9192	0.0082	0.9192	0.0082	0.9055	0.0090	0.9081	0.0083	0.8215	0.0101	46.294
225.66	0.9150	0.0131	0.9150	0.0131	0.9255	0.0109	0.9255	0.0109	0.9028	0.0094	0.9021	0.0094	0.8172	0.0111	44.315
235.30	0.9069	0.0136	0.9069	0.0136	0.9242	0.0135	0.9242	0.0135	0.9168	0.0130	0.9173	0.0130	0.8326	0.0182	42.499
244.94	0.9164	0.0092	0.9164	0.0092	0.9263	0.0062	0.9263	0.0062	0.9050	0.0066	0.9070	0.0068	0.8202	0.0128	40.826
254.59	0.9105	0.0230	0.9105	0.0230	0.9288	0.0214	0.9288	0.0214	0.9136	0.0217	0.9128	0.0216	0.8263	0.0218	39.279
264.23	0.9032	0.0198	0.9032	0.0198	0.9303	0.0197	0.9303	0.0197	0.9008	0.0200	0.9025	0.0198	0.8319	0.0209	37.846
273.87	0.9133	0.0151	0.9134	0.0151	0.9299	0.0083	0.9299	0.0083	0.8993	0.0170	0.9074	0.0167	0.8236	0.0100	36.513
283.52	0.9115	0.0105	0.9116	0.0105	0.9221	0.0108	0.9221	0.0108	0.8925	0.0109	0.8931	0.0107	0.8200	0.0136	35.271
293.16	0.9071	0.0183	0.9071	0.0183	0.9267	0.0167	0.9267	0.0167	0.9013	0.0172	0.9031	0.0170	0.8354	0.0190	34.111
302.80	0.9114	0.0257	0.9114	0.0257	0.9365	0.0254	0.9365	0.0254	0.9054	0.0257	0.9080	0.0261	0.8128	0.0254	33.025
312.45	0.9143	0.0137	0.9143	0.0137	0.9266	0.0133	0.9266	0.0133	0.9197	0.0189	0.9128	0.0210	0.8667	0.0338	32.005
322.09	0.9107	0.0199	0.9107	0.0199	0.9207	0.0160	0.9207	0.0160	0.9079	0.0171	0.9072	0.0173	0.8299	0.0212	31.047
331.73	0.9175	0.0161	0.9175	0.0161	0.9286	0.0174	0.9286	0.0174	0.9078	0.0159	0.9079	0.0159	0.8257	0.0172	30.145
341.38	0.9116	0.0170	0.9116	0.0170	0.9275	0.0147	0.9275	0.0147	0.9047	0.0138	0.9042	0.0139	0.8229	0.0160	29.293
351.02	0.9061	0.0115	0.9061	0.0115	0.9272	0.0132	0.9272	0.0132	0.9113	0.0142	0.9097	0.0133	0.8399	0.0135	28.488
360.66	0.9075	0.0263	0.9075	0.0263	0.9282	0.0249	0.9282	0.0249	0.9039	0.0246	0.9042	0.0246	0.8373	0.0249	27.727
370.31	0.9188	0.0072	0.9189	0.0072	0.9223	0.0094	0.9223	0.0094	0.9097	0.0088	0.9081	0.0094	0.8444	0.0094	27.005
379.95	0.9116	0.0248	0.9116	0.0248	0.9433	0.0198	0.9433	0.0198	0.8931	0.0212	0.8951	0.0207	0.8447	0.0204	26.319
389.59	0.9199	0.0114	0.9199	0.0114	0.9151	0.0133	0.9151	0.0133	0.9111	0.0120	0.9092	0.0128	0.8340	0.0127	25.668
399.24	0.9038	0.0167	0.9038	0.0167	0.9375	0.0162	0.9375	0.0162	0.9006	0.0161	0.8997	0.0162	0.8402	0.0184	25.048
408.88	0.9077	0.0125	0.9077	0.0125	0.9214	0.0100	0.9214	0.0100	0.8992	0.0121	0.9022	0.0116	0.8380	0.0107	24.457
418.53	0.9112	0.0134	0.9112	0.0134	0.9160	0.0090	0.9160	0.0090	0.8998	0.0100	0.9021	0.0098	0.8345	0.0096	23.893
428.17	0.9156	0.0149	0.9157	0.0149	0.9264	0.0127	0.9264	0.0127	0.9155	0.0126	0.9157	0.0126	0.8395	0.0127	23.355
437.81	0.9005	0.0065	0.9005	0.0065	0.9172	0.0066	0.9172	0.0066	0.9097	0.0107	0.9124	0.0094	0.8620	0.0072	22.841
447.46	0.9063	0.0138	0.9064	0.0138	0.9182	0.0109	0.9182	0.0109	0.9057	0.0117	0.9082	0.0108	0.8423	0.0141	22.349
457.10	0.9101	0.0090	0.9101	0.0090	0.9293	0.0092	0.9293	0.0092	0.9007	0.0082	0.8988	0.0086	0.8418	0.0099	21.877
466.74	0.9111	0.0076	0.9111	0.0076	0.9309	0.0087	0.9309	0.0087	0.9138	0.0073	0.9125	0.0076	0.8505	0.0093	21.425
476.39	0.9143	0.0103	0.9143	0.0103	0.9291	0.0118	0.9291	0.0118	0.9060	0.0101	0.9049	0.0103	0.8475	0.0122	20.991
486.03	0.9157	0.0119	0.9157	0.0119	0.9281	0.0122	0.9281	0.0122	0.9045	0.0114	0.9053	0.0113	0.8402	0.0120	20.575
495.67	0.9127	0.0075	0.9127	0.0075	0.9325	0.0100	0.9325	0.0100	0.9040	0.0089	0.9060	0.0085	0.8264	0.0089	20.175