



HEAT TRANSFER FLUIDS

700 Kingsland Drive
Batavia, IL 60510
Phone: (630) 232-7966
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www.Radcoind.com

XCELTHERM® CA– Engineering Properties

Non-toxic, high purity, premium fluid that features superior economy.

Temperature		Viscosity		Density		Enthalpy		Thermal Conductivity		Vapor Pressure	
°F	°C	cSt	cP	lb/ft ³	kg/m ³	BTU/lb-°F	J/g-K	BTU/ft-hr-°F	W/m-K	psia	kg/cm ²
50	10	120	102	53.38	855.2	0.4670	1.955	0.0790	0.1367	-	-
60	16	74.7	63.6	53.18	851.9	0.4716	1.974	0.0788	0.1363	-	-
70	21	49.1	41.6	52.97	848.5	0.4761	1.993	0.0785	0.1358	-	-
80	27	33.7	28.5	52.76	845.2	0.4806	2.012	0.0783	0.1354	-	-
90	32	24.1	20.3	52.55	841.9	0.4851	2.031	0.0780	0.1349	-	-
100	38	17.8	14.9	52.34	838.5	0.4896	2.050	0.0778	0.1345	-	-
110	43	13.5	11.3	52.13	835.2	0.4941	2.069	0.0775	0.1340	-	-
120	49	10.6	8.79	51.93	831.9	0.4986	2.088	0.0772	0.1336	-	-
130	54	8.43	6.99	51.72	828.5	0.5031	2.107	0.0770	0.1331	-	-
140	60	6.86	5.66	51.51	825.2	0.5076	2.125	0.0767	0.1327	-	-
150	66	5.68	4.67	51.30	821.9	0.5122	2.144	0.0765	0.1323	-	-
160	71	4.78	3.91	51.09	818.5	0.5167	2.163	0.0762	0.1318	-	-
170	77	4.07	3.32	50.89	815.2	0.5212	2.182	0.0760	0.1314	-	-
180	82	3.51	2.85	50.68	811.9	0.5257	2.201	0.0757	0.1309	-	-
190	88	3.06	2.47	50.47	808.5	0.5302	2.220	0.0754	0.1305	-	-
200	93	2.69	2.16	50.26	805.2	0.5347	2.239	0.0752	0.1300	0.0010	0.0001
210	99	2.39	1.91	50.05	801.9	0.5392	2.258	0.0749	0.1296	0.0014	0.0001
220	104	2.13	1.70	49.85	798.5	0.5437	2.277	0.0747	0.1291	0.0021	0.0001
230	110	1.92	1.53	49.64	795.2	0.5482	2.295	0.0744	0.1287	0.0029	0.0002
240	116	1.74	1.38	49.43	791.9	0.5528	2.314	0.0742	0.1283	0.0040	0.0003
250	121	1.59	1.25	49.22	788.5	0.5573	2.333	0.0739	0.1278	0.0054	0.0004
260	127	1.46	1.14	49.01	785.2	0.5618	2.352	0.0736	0.1274	0.0072	0.0005
270	132	1.34	1.05	48.81	781.9	0.5663	2.371	0.0734	0.1269	0.0095	0.0007
280	138	1.24	0.969	48.60	778.5	0.5708	2.390	0.0731	0.1265	0.0125	0.0009
290	143	1.16	0.898	48.39	775.2	0.5753	2.409	0.0729	0.1260	0.0163	0.0011
300	149	1.08	0.835	48.18	771.9	0.5798	2.428	0.0726	0.1256	0.0210	0.0015
310	154	1.01	0.779	47.97	768.5	0.5843	2.447	0.0724	0.1251	0.0267	0.0019
320	160	0.954	0.730	47.77	765.2	0.5889	2.465	0.0721	0.1247	0.0338	0.0024
330	166	0.900	0.686	47.56	761.9	0.5934	2.484	0.0718	0.1243	0.0425	0.0030
340	171	0.853	0.647	47.35	758.5	0.5979	2.503	0.0716	0.1238	0.0531	0.0037
350	177	0.810	0.611	47.14	755.2	0.6024	2.522	0.0713	0.1234	0.0657	0.0046
360	182	0.771	0.580	46.93	751.9	0.6069	2.541	0.0711	0.1229	0.0811	0.0057
370	188	0.736	0.551	46.72	748.5	0.6114	2.560	0.0708	0.1225	0.0992	0.0070
380	193	0.704	0.525	46.52	745.2	0.6159	2.579	0.0706	0.1220	0.1210	0.0085
390	199	0.676	0.501	46.31	741.9	0.6204	2.598	0.0703	0.1216	0.1466	0.0103
400	204	0.650	0.480	46.10	738.5	0.6249	2.617	0.0700	0.1211	0.1769	0.0124
410	210	0.626	0.460	45.89	735.2	0.6295	2.635	0.0698	0.1207	0.2124	0.0149
420	216	0.604	0.442	45.68	731.9	0.6340	2.654	0.0695	0.1203	0.2539	0.0179

Data Represents typical laboratory samples and are not guaranteed for all samples
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430	221	0.584	0.425	45.48	728.5	0.6385	2.673	0.0693	0.1198	0.3023	0.0213
440	227	0.566	0.410	45.27	725.2	0.6430	2.692	0.0690	0.1194	0.3584	0.0252
450	232	0.549	0.396	45.06	721.9	0.6475	2.711	0.0688	0.1189	0.4233	0.0298
460	238	0.533	0.383	44.85	718.5	0.6520	2.730	0.0685	0.1185	0.4981	0.0350
470	243	0.519	0.371	44.64	715.2	0.6565	2.749	0.0682	0.1180	0.5842	0.0411
480	249	0.506	0.360	44.44	711.9	0.6610	2.768	0.0680	0.1176	0.6828	0.0480
490	254	0.493	0.350	44.23	708.5	0.6655	2.787	0.0677	0.1171	0.7955	0.0559
500	260	0.482	0.340	44.02	705.2	0.6701	2.805	0.0675	0.1167	0.9239	0.0650
510	266	0.472	0.331	43.81	701.9	0.6746	2.824	0.0672	0.1163	1.070	0.0752
520	271	0.462	0.323	43.60	698.5	0.6791	2.843	0.0670	0.1158	1.235	0.0869
530	277	0.453	0.315	43.40	695.2	0.6836	2.862	0.0667	0.1154	1.423	0.1000
540	282	0.444	0.307	43.19	691.9	0.6881	2.881	0.0664	0.1149	1.634	0.1149
550	288	0.436	0.300	42.98	688.5	0.6926	2.900	0.0662	0.1145	1.872	0.1316
560	293	0.429	0.294	42.77	685.2	0.6971	2.919	0.0659	0.1140	2.139	0.1504
570	299	0.422	0.288	42.56	681.9	0.7016	2.938	0.0657	0.1136	2.439	0.1715
580	304	0.416	0.282	42.36	678.5	0.7062	2.957	0.0654	0.1131	2.774	0.1950
590	310	0.410	0.277	42.15	675.2	0.7107	2.975	0.0652	0.1127	3.148	0.2214
600	316	0.404	0.271	41.94	671.9	0.7152	2.994	0.0649	0.1123	3.566	0.2507

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