

XCELTHERM® LVI Engineering Properties*

Radco Industries

LIQUID PHASE*												
Temperature		Viscosity	Density		Specific Heat		Thermal Conductivity		Enthalpy (Liquid)		Vapor Pressure	
°F	°C		lb/ft3	kg/m3	BTU/lb-°F	J/g-K	BTU/ft-hr-°F	W/m-K	BTU/lb	J/g	psia	kg/cm2
45	7.2	8.416	67.05	1074	0.366	1.532	0.0793	0.1372	0	0	-	-
55	12.8	7.146	66.76	1070	0.37	1.547	0.079	0.1367	3.7	8.5	0.0001	-
60	15.6	6.585	66.62	1067	0.372	1.555	0.0788	0.1364	5.5	12.9	0.0001	-
80	26.7	4.747	66.04	1058	0.38	1.589	0.0781	0.1352	13	30.3	0.0004	-
100	37.8	3.422	65.46	1049	0.388	1.623	0.0775	0.1341	20.7	48.2	0.001	0.0001
120	48.9	2.619	64.88	1039	0.396	1.656	0.0768	0.1329	28.6	66.4	0.0024	0.0002
140	60	2.11	64.3	1030	0.403	1.686	0.0761	0.1317	36.5	84.9	0.0055	0.0004
160	71.1	1.748	63.73	1021	0.411	1.72	0.0753	0.1304	44.7	103.8	0.0119	0.0008
180	82.2	1.478	63.15	1012	0.418	1.75	0.0745	0.1289	52.9	123	0.238	0.0017
200	93.3	1.277	62.57	1002	0.426	1.784	0.0738	0.1276	61.4	142.7	0.0453	0.0032
220	104.4	1.113	61.99	993.1	0.433	1.814	0.0729	0.1262	69.9	162.5	0.0819	0.0058
240	115.6	0.0981	61.41	983.8	0.441	1.847	0.0721	0.1248	78.7	182.9	0.142	0.01
260	126.7	0.872	60.83	974.5	0.449	1.877	0.0713	0.1233	87.6	203.5	0.2371	0.0167
280	137.8	0.782	60.25	965.3	0.456	1.907	0.0704	0.1218	96.6	224.4	0.3813	0.0268
300	148.9	0.705	59.67	956	0.464	1.941	0.0694	0.1202	105.8	245.9	0.5937	0.0417
320	160	0.625	59.09	946.7	0.471	1.971	0.0685	0.1186	115.1	267.4	0.8983	0.0632
340	171.1	0.56	58.52	937.4	0.478	2.001	0.0676	0.117	124.5	289.4	1.3255	0.0932
360	182.2	0.501	57.94	928.2	0.485	2.031	0.0667	0.1154	134.1	311.6	1.9126	0.1345
380	193.3	0.449	57.36	918.9	0.492	2.061	0.0657	0.1137	143.8	334.2	2.7052	0.1902
400	204.4	0.402	56.78	909.6	0.5	2.091	0.0647	0.112	153.7	357.1	3.7582	0.2642
420	215.6	0.38	56.2	900.3	0.507	2.121	0.0637	0.1103	163.7	380.3	5.0923	0.358
440	226.7	0.351	55.62	891.1	0.515	2.155	0.0626	0.1084	174	404.3	6.8153	0.4792
460	237.8	0.325	55.04	881.8	0.521	2.181	0.0615	0.1065	184.1	427.8	8.9813	0.6315
480	248.9	0.302	54.46	872.5	0.529	2.215	0.0605	0.1046	194.7	452.5	11.626	0.8174
500	260	0.281	53.89	863.3	0.536	2.245	0.0594	0.1028	205.3	477.1	14.894	1.0472
520	271.1	0.27	53.31	854	0.544	2.275	0.0583	0.1009	216	502	18.974	1.3341
540	282.2	0.254	52.73	844.7	0.551	2.305	0.0571	0.0989	226.9	527.3	23.428	1.6472
560	293.3	0.24	52.15	835.4	0.558	2.335	0.0559	0.0968	237.9	552.9	29.479	2.0727
580	304.4	0.226	51.57	826.2	0.565	2.365	0.0548	0.0948	249.1	578.8	36.153	2.5419
600	315.6	0.213	50.99	816.9	0.572	2.395	0.0535	0.0926	260.4	605.1	43.976	3.0919

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620	326.7	0.202	50.41	807.6	0.58	2.429	0.0523	0.0905	272.1	632.3	53.024	3.7281
640	337.8	0.192	49.83	798.3	0.588	2.459	0.051	0.0883	283.7	659.2	63.414	4.4586
660	348.9	0.182	49.26	789.1	0.596	2.492	0.0498	0.0862	295.7	687.1	75.307	5.2948
680	360	0.173	48.68	779.8	0.604	2.526	0.0486	0.084	307.8	715.4	88.955	6.2544
700	371.1	0.165	48.1	770.5	0.612	2.559	0.0472	0.0818	320.1	744	103.71	7.2921

* Data Represents typical laboratory samples and are not guaranteed for all samples.

¹ Enthalpy basis is liquid crystallizing point of 45°F (7.2°C)