

Asahiklin AK-134a Transport Properties

Thermal conductivity (saturation)

Temperature °C	Thermal conductivity (W/m/K)									
	R-32		R-125		R-134a		R-143a		R-502	
	Saturated Liquid	Saturated Vapor	Saturated Liquid	Saturated Vapor	Saturated Liquid	Saturated Vapor	Saturated Liquid	Saturated Vapor	Saturated Liquid	Saturated Vapor
-70	0.2025	0.0074	0.1034	0.00749	0.126	0.00575	0.1126	0.00736	0.1012	0.0058
-65	0.1992	0.00764	0.1008	0.00779	0.1233	0.00615	0.11	0.0077	0.09899	0.00604
-60	0.1958	0.00788	0.09825	0.0081	0.1207	0.00656	0.1075	0.00804	0.09682	0.00628
-55	0.1924	0.00813	0.09578	0.00842	0.1181	0.00696	0.105	0.00839	0.09468	0.00653
-50	0.189	0.00839	0.09334	0.00874	0.1156	0.00736	0.1026	0.00876	0.09257	0.00678
-45	0.1856	0.00866	0.09094	0.00908	0.1131	0.00777	0.1003	0.00913	0.09048	0.00705
-40	0.1822	0.00893	0.08858	0.00942	0.1106	0.00817	0.09794	0.00952	0.08842	0.00731
-35	0.1787	0.00922	0.08625	0.00977	0.1082	0.00858	0.09566	0.00991	0.08638	0.00759
-30	0.1753	0.00952	0.08395	0.01012	0.1058	0.00899	0.09342	0.01033	0.08436	0.00787
-25	0.1718	0.00984	0.08167	0.01049	0.1034	0.0094	0.09122	0.01075	0.08236	0.00817
-20	0.1683	0.01018	0.07942	0.01087	0.1011	0.00982	0.08904	0.0112	0.08038	0.00847
-15	0.1648	0.01054	0.07719	0.01127	0.09876	0.01023	0.0869	0.01166	0.07841	0.00879
-10	0.1613	0.01092	0.07498	0.01168	0.09649	0.01066	0.08478	0.01214	0.07645	0.00911
-5	0.1577	0.01134	0.07278	0.01211	0.09424	0.01108	0.08269	0.01265	0.0745	0.00946
0	0.1541	0.01179	0.07059	0.01256	0.09201	0.01151	0.08061	0.01318	0.07257	0.00982
5	0.1504	0.01229	0.06842	0.01304	0.0898	0.01195	0.07855	0.01376	0.07064	0.0102
10	0.1467	0.01286	0.06625	0.01355	0.08761	0.0124	0.07651	0.01439	0.06871	0.0106
15	0.1429	0.01352	0.06408	0.01411	0.08544	0.01286	0.07447	0.01507	0.06678	0.01103
20	0.139	0.0143	0.06191	0.01472	0.08328	0.01333	0.07244	0.01583	0.06486	0.0115
25	0.135	0.01523	0.05974	0.01541	0.08113	0.01382	0.07041	0.0167	0.06293	0.01201
30	0.131	0.01636	0.05757	0.01621	0.07899	0.01433	0.06837	0.01769	0.061	0.01258
35	0.1268	0.01778	0.05538	0.01715	0.07685	0.01487	0.06632	0.01885	0.05906	0.01321
40	0.1225	0.01958	0.0532	0.01829	0.07471	0.01544	0.06425	0.02025	0.05711	0.01393
45	0.118	0.02192	0.05104	0.01974	0.07257	0.01605	0.06215	0.02198	0.05515	0.01477
50	0.1133	0.02506	0.04896	0.02168	0.07042	0.01672	0.06002	0.02419	0.05319	0.01578
55	0.1084	0.02937	0.04722	0.02448	0.06826	0.01747	0.05787	0.02712	0.05126	0.01703
60	0.103	0.03562	0.04711	0.02927	0.06609	0.01831	0.05571	0.03131	0.04942	0.01864
65	0.0972	0.04554	0.0608	0.04765	0.06389	0.01928	0.05371	0.03813	0.04788	0.02084
70	0.09064	0.06551			0.06167	0.02045	0.05331	0.05465	0.04745	0.02413
75	0.08312	0.34330			0.05943	0.02188			0.05195	0.03003
80					0.05717	0.02372			0.05466	0.05426
85					0.05492	0.02622				
90					0.05284	0.02991				
95					0.05167	0.03640				
100					0.05995	0.06058				

Viscosity (saturation)

Temperature °C	Viscosity (μPa·s)									
	R-32		R-125		R-134a		R-143a		R-502	
	Saturated Liquid	Saturated Vapor	Saturated Liquid	Saturated Vapor	Saturated Liquid	Saturated Vapor	Saturated Liquid	Saturated Vapor	Saturated Liquid	Saturated Vapor
-70	355	8.479	590.5	8.763	809.2	7.886	393.1	7.493	483.1	8.678
-65	332.2	8.69	538.4	8.975	730.2	8.095	364.5	7.682	447.6	8.892
-60	311.5	8.9	493.1	9.189	663.1	8.304	338.9	7.871	415.9	9.105
-55	292.6	9.112	453.2	9.402	605.3	8.51	315.9	8.061	387.5	9.301
-50	275.3	9.324	417.9	9.555	555.1	8.716	295	8.252	361.7	9.517
-45	259.4	9.537	386.3	9.771	511.1	8.919	276.1	8.443	338.3	9.732
-40	244.6	9.751	357.9	9.987	472.2	9.122	258.7	8.637	317	9.948
-35	231	9.967	332.2	10.2	437.5	9.324	242.7	8.832	297.4	10.16
-30	218.2	10.19	308.7	10.4	406.4	9.525	228	9.029	279.3	10.38
-25	206.4	10.41	287.3	10.7	378.4	9.725	214.3	9.23	262.5	10.6
-20	195.2	10.63	267.5	10.9	353	9.925	201.6	9.434	247	10.82
-15	184.8	10.87	249.3	11.1	329.8	10.13	189.7	9.643	232.5	11.04
-10	174.9	11.1	232.3	11.4	308.6	10.33	178.5	9.857	218.9	11.26
-5	165.6	11.35	216.5	11.6	289.1	10.53	168	10.08	206.2	11.49
0	156.7	11.6	201.7	11.9	271.1	10.73	158	10.31	194.1	11.72
5	148.3	11.86	187.7	12.2	254.4	10.94	148.6	10.54	182.8	11.95
10	140.3	12.14	174.6	12.5	238.8	11.15	139.6	10.79	172	12.2
15	132.6	12.42	162.1	12.8	224.3	11.36	131.1	11.05	161.7	12.45
20	125.2	12.73	150.2	13.1	210.7	11.58	122.9	11.33	151.9	12.72
25	118.1	13.05	138.8	13.5	197.9	11.81	114.9	11.63	142.5	13
30	111.2	13.39	127.8	13.9	185.8	12.04	107.3	11.96	133.4	13.31
35	104.5	13.76	117.2	14.4	174.3	12.29	99.89	12.32	124.7	13.64
40	97.94	14.16	106.8	15	163.4	12.55	92.63	12.73	116.2	14
45	91.51	14.61	96.52	15.7	153	12.82	85.47	13.19	107.8	14.41
50	85.12	15.13	86.14	16.5	143.1	13.12	78.35	13.74	99.61	14.87
55	78.72	15.73	75.33	17.7	133.5	13.44	71.15	14.43	91.43	15.42
60	72.19	16.46	63.27	19.5	124.2	13.79	63.7	15.32	83.17	16.08
65	65.36	17.41	45.99	24.5	115.2	14.19	55.58	16.64	74.63	16.93
70	57.85	18.78			106.4	14.65	45.38	19.16	65.49	18.09
75	48.49	21.28			97.72	15.18			54.95	19.97
80					89.02	15.84			46.4	46.6
85					80.17	16.67				
90					70.86	17.81				
95					60.38	19.61				
100					45.1	24.21				