Helium - 4

^4He

M.W. [1]	N.B.P. [2]	T.P.
4.0026	4.224 K	NA
P_c [2]	T_c [2]	V_c [3]
0.2275 MPa	5.2 K	0.057475 m^3/kmol

T K	$\frac{C_p^0(T)}{R}$	Vapor Pressure MPa	$B(T)$ $cm^3 \cdot mol^{-1}$	dB/dT · T $cm^3 \cdot mol^{-1}$	$C(T)$ $cm^6 \cdot mol^{-2}$	dC/dT · T $cm^6 \cdot mol^{-2}$	λ mW/(m·K)	η µPa·s
Estimated Uncertainty	-	-	1%	-	10%	-	0.1%	0.1%
Reference	-	-	[4]	[4]	[5]	[5]	[4]	[4]
100	2.5	-	11.636	2.114	115.30	95.88	74.8	9.6
120	2.5	-	11.944	1.288	126.64	33.54	84.4	10.8
140	2.5	-	12.096	0.692	129.07	0.37	93.4	11.9
160	2.5	-	12.157	0.242	127.78	-18.31	102.1	13.0
180	2.5	-	12.165	-0.109	124.95	-29.15	110.4	14.1
200	2.5	-	12.138	-0.390	121.52	-35.51	118.5	15.1
225	2.5	-	12.076	-0.671	117.06	-39.80	128.2	16.4
250	2.5	-	11.993	-0.896	112.75	-41.76	137.7	17.6
273.15	2.5	-	11.906	-1.066	109.01	-42.36	146.2	18.7
275	2.5	-	11.899	-1.078	108.73	-42.37	146.9	18.8
300	2.5	-	11.798	-1.229	105.04	-42.22	155.9	19.9
325	2.5	-	11.695	-1.356	101.69	-41.60	164.6	21.0
350	2.5	-	11.590	-1.464	98.63	-40.73	173.2	22.1
375	2.5	-	11.486	-1.556	95.86	-39.71	181.6	23.2
400	2.5	-	11.383	-1.636	93.33	-38.62	189.9	24.3
450	2.5	-	11.182	-1.767	88.91	-36.39	206.0	26.3
500	2.5	-	10.990	-1.868	85.19	-34.23	221.7	28.3
600	2.5	-	10.636	-2.013	79.30	-30.38	251.9	32.2
700	2.5	-	10.318	-2.108	74.87	-27.18	280.9	35.9
800	2.5	-	10.032	-2.174	71.42	-24.52	308.9	39.5
900	2.5	-	9.773	-2.219	68.66	-22.31	336.1	43.0
1000	2.5	-	9.538	-2.251	66.41	-20.45	362.6	46.4
1200	2.5	-	9.124	-2.288	62.95	-17.51	413.9	52.9
1400	2.5	-	8.769	-2.306	60.43	-15.29	463.3	59.3
1600	2.5	-	8.461	-2.310	58.50	-13.57	511.3	65.4
1800	2.5	-	8.189	-2.308	56.99	-12.19	558.1	71.4
2000	2.5	-	7.946	-2.300	55.76	-11.06	603.9	77.3

2500	2.5	-	7.436	-2.271	53.53	-8.98	714.8	91.5
3000	2.5	-	7.025	-2.236	52.03	-7.56	821.9	105.2
3500	2.5	-	6.683	-2.200	50.95	-6.52	926.0	118.6
4000	2.5	-	6.392	-2.164	50.13	-5.74	1027.8	131.6
4500	2.5	-	6.139	-2.129	49.49	-5.12	1127.8	144.4
5000	2.5	-	5.916	-2.096	48.98	-4.62	1226.3	157.1
6000	2.5	-	5.540	-2.034	48.20	-3.87	1419.6	181.8
7000	2.5	-	5.230	-1.979	47.65	-3.33	1609.3	206.2
8000	2.5	-	4.969	-1.929	47.23	-2.92	1796.3	230.2
9000	2.5	-	4.745	-1.883	46.91	-2.60	1981.2	253.9
10000	2.5	-	4.549	-1.841	46.65	-2.35	2164.6	277.4

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