

SU FİZİKSEL ÖZELLİKLERİ

SICAKLIK	MUTLAK BASINÇ	ÖZGÜL KÜTLE	ÖZGÜL ISI	İLETİM KATSAYISI	DİNAMİK VİSKOZİTE	KİNEMATİK VİSKOZİTE	ISIL YAYINIM	ISIL GENLEŞME	PRANDLE	GİZLİ ISI
T	P	ρ	c_p	λ	$\mu 10^6$	$\nu 10^6$	$a 10^3$	$\beta 10^3$	Pr	r
[°C]	[bar]	[kg/m ³]	[kcal/kg °C]	[kcal/mh °C]	[kgs/m ²]	[m ² /s]	[m ² /h]	[1/°K]		[kcal/kg]
0	1	999.8	1.0074	0.475	182.7	1.762	0.472	-0.070	13.67	597.3
10	1	999.7	1.0013	0.497	133.3	1.340	0.497	0.088	9.47	591.7
20	1	999.2	0.9987	0.514	102.2	1.004	0.515	0.207	7.01	586.0
30	1	995.7	0.9980	0.528	81.3	0.801	0.531	0.303	5.43	580.4
40	1	992.2	0.9980	0.540	66.5	0.658	0.545	0.385	4.34	574.7
50	1	998.0	0.9985	0.551	55.7	0.553	0.559	0.457	3.56	569.0
60	1	983.2	0.9994	0.560	47.5	0.474	0.570	0.523	2.99	563.2
70	1	977.8	1.0007	0.568	41.2	0.413	0.580	0.585	2.56	557.3
80	1	971.8	1.0023	0.575	36.2	0.365	0.590	0.643	2.23	551.3
90	1	965.3	1.0044	0.581	32.1	0.326	0.599	0.698	1.96	545.2
100	1.033	958.4	1.0070	0.586	28.8	0.295	0.607	0.752	1.75	539.0
120	2.024	943.1	1.0140	0.589	23.9	0.249	0.616	0.860	1.45	526.1
140	3.658	926.1	1.0240	0.588	20.3	0.215	0.621	0.975	1.25	512.3
160	6.302	907.4	1.0370	0.586	17.5	0.189	0.633	1.098	1.09	497.4
180	10.225	886.9	1.0530	0.581	15.35	0.170	0.622	1.233	0.98	481.3
200	15.857	864.7	1.0740	0.572	13.92	0.158	0.616	1.392	0.92	463.5
220	23.659	840.3	1.1010	0.561	12.75	0.149	0.606	1.697	0.88	443.7
240	34.140	813.6	1.1370	0.546	11.78	0.142	0.590	1.862	0.87	421.7
260	47.866	874.0	1.1890	0.526	10.91	0.137	0.564	2.210	0.87	396.8
280	65.457	750.7	1.2680	0.499	10.15	0.133	0.524	2.700	0.91	368.5
300	87.611	712.5	1.4000	0.465	9.43	0.130	0.466	3.460	1.00	368.5
320	115.12	667.0	1.5800	0.422	8.72	0.128	0.400	4.600	1.15	295.6
340	148.96	609.5	2.0000	0.370	7.90	0.127	0.304	8.250	1.50	245.3
360	195.42	524.5	3.2000	0.300	6.98	0.131	0.180		2.60	171.9
374.2	225.60	326.0		0.180	5.16	0.155	0.000			0.0

$$\rho = -0.00269 T^2 - 0.161769 T + 1002.893458$$

$$0 \text{ °C} < T < 200 \text{ °C}$$

$$c_p = -1.1 \times 10^{-12} T^5 + 6.44 \times 10^{-10} T^4 - 1.3 \times 10^{-07} T^3 + 1.39 \times 10^{-05} T^2 - 0.00061943 T + 1.0069003$$

$$\lambda = -6.1 \times 10^{-06} T^2 + 0.00165 T + 0.481465$$

$$\mu = 0.01 / (-2.8 \times 10^{-05} T^3 + 0.012477 T^2 + 1.94888 T + 54.4225)$$

$$\nu = 1E-06 / (-3.77 \times 10^{-07} T^3 + 0.00012 T^2 + 0.020083 T + 0.551683)$$

$$Pr = 4.763 \times 10^{-12} T^6 - 3.305 \times 10^{-09} T^5 + 9.165 \times 10^{-07} T^4 - 0.00013111 T^3 + 0.0105426 T^2 - 0.4958255 T + 13.6167$$