

Table HT-5 Thermophysical Properties of Saturated

Temperature, T (K)	Specific Heat (kJ/kg · K)		Viscosity (N · s/m ²)		Thermal Conductivity (W/m · K)		Prandtl Number		Expansion Coefficient, $\beta_f \cdot 10^6$ (K ⁻¹)
	$c_{p,f}$	$c_{p,g}$	$\mu_f \cdot 10^6$	$\mu_g \cdot 10^6$	$k_f \cdot 10^3$	$k_g \cdot 10^3$	Pr_f	Pr_g	
273.15	4.217	1.854	1750	8.02	569	18.2	12.99	0.815	-68.05
275	4.211	1.855	1652	8.09	574	18.3	12.22	0.817	-32.74
280	4.198	1.858	1422	8.29	582	18.6	10.26	0.825	46.04
285	4.189	1.861	1225	8.49	590	18.9	8.81	0.833	114.1
290	4.184	1.864	1080	8.69	598	19.3	7.56	0.841	174.0
295	4.181	1.868	959	8.89	606	19.5	6.62	0.849	227.5
300	4.179	1.872	855	9.09	613	19.6	5.83	0.857	276.1
305	4.178	1.877	769	9.29	620	20.1	5.20	0.865	320.6
310	4.178	1.882	695	9.49	628	20.4	4.62	0.873	361.9
315	4.179	1.888	631	9.69	634	20.7	4.16	0.883	400.4
320	4.180	1.895	577	9.89	640	21.0	3.77	0.894	436.7
325	4.182	1.903	528	10.09	645	21.3	3.42	0.901	471.2
330	4.184	1.911	489	10.29	650	21.7	3.15	0.908	504.0
335	4.186	1.920	453	10.49	656	22.0	2.88	0.916	535.5
340	4.188	1.930	420	10.69	660	22.3	2.66	0.925	566.0
345	4.191	1.941	389	10.89	665	22.6	2.45	0.933	595.4
350	4.195	1.954	365	11.09	668	23.0	2.29	0.942	624.2
355	4.199	1.968	343	11.29	671	23.3	2.14	0.951	652.3
360	4.203	1.983	324	11.49	674	23.7	2.02	0.960	697.9
365	4.209	1.999	306	11.69	677	24.1	1.91	0.969	707.1
370	4.214	2.017	289	11.89	679	24.5	1.80	0.978	728.7
373.15	4.217	2.029	279	12.02	680	24.8	1.76	0.984	750.1

¹See Table T-2 for specific volume, v_f and v_g .

873.1
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fluid gas