附表 16 饱和水和饱和水蒸气热力性质表(按温度排列)

温 度 °C	压力	比体积	m³/kø	比焓	kJ / kg	汽化潜	比熵 &	J /(kg · K)
	p	液体	_ <i>/ kg</i> 蒸 汽	液体	蒸汽	kJ/kg	液体	蒸汽
	-	ν'	ν"	h'	h"	1/	5'	5"
0.00	0.0006112	0.00100022	206.154	-0.05	2500.51	2500.6	-0.00	9.1544
0.01	0.0006117	0.00100021	206.012	0.00	2500.53	2500.5	0.000	9.1541
1	0.0006571	0.00100018	192.464	4.18	2502.35	2498.2	0.015	9.1278
2	0.0007059	0.00100013	179.787	8.39	2504.19	2495.8	0.030	9.1014
3	0.0007580	0.00VTOO09	168.041	12.61	2506.03	2493.4	0.045	9.0752
4	0.0008135	0.00100008	157.151	16.82	2507.87	2491.1	0.061	9.0493
5	0.0008725	0.00100008	147.048	21.02	2509.71	2488.7	0.076	9.0236
6	0.0009352	0.00100010	137.670	25.22	2511.55	2486.3	0.091	8.9982
7	0.0010019	0.00100014	128.961	29.42	2513.39	2484.0	0.1063	8.9730
8	0.0010728	0-00100019	120.868	33.62	2515.23	2481.6	0.1213	8.9480
9	0.0011480	0.00100026	113.342	37.81	2517.06	2479.3	0.1362	8.9233
10	0.0012279	0.00100034	106.341	42.00	2518.90	2476.9	0.151	8.8988
11	0.0013126	0.00100043	99.825	46.19	2520.74	2474.5	0.1658	8.8745
12	0.0014025	0.00100054	93.756	50.38	2522.57	2472.2	0.1805	8.8504
13	0-0014977	0.00100066	88.101	54.57	2524.41	2469.8	0.1952	8.8265
14	0-0015985	0-00100080	82.828	58.76	2526.24	2467.5	0.2098	8.8029
15	0.0017053	0.00100094	77.910	62.95	2528.07	2465.1	0.2243	8.7794
16	0.0018183	0.00100110	73.320	67.13	2529.90	2462.8	0.238	8.7562
17	0.0019377	0.00100127	69.034	71.32	2531.72	2460.4	0.253	8.7331
18	0.0020640	0.00100145	65.029	75.50	2533.55	2458.1	0.267	8.7103
温度℃	压力	比体积	$m^3/k\sigma$	比焓	kJ/kg	汽化潜	比熵 &	I /(kg · K)
t	р	液体	蒸汽	液体	蒸汽	kJ/kg	液体	蒸汽
		ν'	ν"	h^+	h"	γ	s'	s"
19	0,002197	0.00100165	61.287	79.68	2535.37	2455.7	0.2820	8-6877
20	0.002338	0.00100185	57.786	83.86	2537.20	2453.3	0.2963	8.6652
22	0.002644	0.00100229	51.445	92.23	2540.84	2448.6	0.3247	8.6210
24	0.002984	0.00100276	45.884	100.59	2544.47	2443.9	0.3530	8.5774
26	0.003362	0.00100328	40.997	108.95	2548.10	2439.2	0.3810	8.5347
28	0.003781	0.00100383	36.694	117.32	2551.73	2434.4	0.4089	8.4927
30	0.004245	0.00100442	32.899	125.68	2555.35	2429.7	0.4366	8.4514
35	0.005626	0.00100605	25.222	146.59	2564.38	2417.8	0.5050	8-3511
40	0.007381	0.00100789	19.529	167.50	2573.36	2405.9	0.5723	8.2551
45	0.009589	0.00100993	15.2636	188.42	2582.30	2393.9	0.6386	8.1630

50	0.012244	0.00101216	12.0265	200.22	2501 10	2291.0	0.7029	9.0745
55	0.012344	0.00101216	12.0365	209.33	2591.19	2381.9	0.7038	8.0745
60	0.015752	0.00101455	9.5723	230.24 251.15	2600.02	2369.8	0.7680	7.9896
65	0.019933	0.00101713	7.6740		2608.79	2357.6	0.8312	7.9080
70	0.025024	0.00101986	6.1992	272.08	2617.48	2345.4	0.8935	7.8295
75	0.031178	0.00102276	5.0443	293.01	2626.10	2333.1	0.9550	7.7540
80	0.038565	0.00102582	4.1330	313.96	2634.63	2320.7	1.0156	7.6812
85	0.047376	0.00102903	3.4086	334.93	2643.06	2308.1	1.0753	7.6112
90	0.057818	0.00103240	2.8288	355.92	2651.40	2295.5	1.1343	7.5436
	0.070121	0.00103593	2.3616	376.94	2659.63	2282.7	1.1926	7.4783
温度 ℃	压力	比体积	$m^3/k\sigma$	比焓	kJ/kg	汽化潜	比熵 幻	$(kg \cdot K)$
t	р	液体	蒸汽	液体	蒸汽	kJ/kg	液体	蒸汽
		ν'	ν"	h'	h"	1/	s '	ε"
95	0.084533	0.00103961	1.9827	397.98	2667.73	2269.7	1.2501	7.4154
100	0.101325	0.00104344	1.6736	419.06	2675.71	2256.6	1.3069	7.3545
110	0.143243	0.00105156	1.2106	461.33	2691.26	2229.9	1.4186	7.2386
120	0.198483	0.00106031	0.89219	503.76	2706.18	2202.4	1.5277	7.1297
130	0.270018	0.00106968	0.66873	546.38	2720.39	2174.0	1.6346	7.0272
140	0.361190	0.00107972	0.50900	589.21	2733.81	2144.6	1.7393	6.9302
150	0.47571	0.00109046	0.39286	632.28	2746.35•	2114-1	1.8420	6.8381
160	0.61766	0.00110193	0-30709	675.62	2757.92	2082-3	1.9429	6.7502
170	0.79147	0.00111420	0.24283	719.25	2768.42	2049.2	2.0420	6.6661
180	1.00193	0.00112732	0.19403	763.22	2777.74	2014-5	2.1396	6.5852
190	1.25417	0.00114136	0.15650	807.56	2785.80	1978-2	2.2358	6.5071
200	1.55366	0.00115641	0.12732	852.34	2792.47	1940.1	2.3307	6.4312
210	1.90617	0.00117258	0.10438	897.62	2797.65	1900.0	2.4245	6.3571
220	2.31783	0.00119000	0.08615	943.46	2801.20	857.7	2.5175	6.2846
230	2.79505	0.00120882	0.07155	989.95	2803.00	813.0	2.6096	6.2130
240	3.34459	0.00122922	0.05&-7	1037.2	2802.88	765.7	2.7013	6.1422
250	3.97351	0.00125145	0.05011	1085.3	2800.66	715-4	2.7926	6.0716
260	4.68923	0.00127579	0.04219	1134.3	2796.14	661.8	2.8837	6.0007
270	5.49956	0.00130262	0.03563	1184.5	2789.05	604.5	2.9751	5.9292
温	压力	比体积 "	$n^3/$	比焓	kJ/kg	汽化潜	比熵 <i>Ы</i> /	(ka, V)
度 ℃ <i>t</i>		73/1///	/ kg					`
•	р	液体 ""	蒸 汽 ""	液体	蒸 汽 h"	kJ/kg	液体。	蒸汽。
280	6 41072	· · · · · · · · · · · · · · · · · · ·	-	1226.0		15/2 1		
290	6.41273	0.00133242	0.03016	1236.0	2779.08	1543.1	3.0668	5.8564
300	7.43746	0.00136582	0.02556	1289.1	2765.81	1476.7	3.1594	5.7817
310	8.58308	0.00140369	0.02166	1344.0	2748.71	1404.7	3.2533	5.7042
320	9.8597	0.00144728	0.01834	1401.2	2727.01	1325.9	3.3490	5.6226
320	11.278	0.00149844	0.01547	1461.2	2699.72	1238.5	3.4475	5.5356

330	12.851	0.00156008	0.01298	1524.9	2665.30	1140.4	3.5500	5.4408
340	14.593	0.00163728	0.01079	1593.7	2621.32	1027.6	3.6586	5.3345
350	16.521	0.00174008	0.00881	1670.3	2563.39	893.0	3.7773	5.2104
360	18.657	0.00189423	0.00695	1761.1	2481.68	720.6	3.9155	5.0536
370	21.033	0.00221480	0.00498	1891.7	2338.79	447.1	4.1125	4.8076
371	21.286	0.00227969	0.00473	1911.8	2314.11	402.3	4.1429	4.7674
372	21.542	0.00236530	0.00445	1936.1	2282.99	346.9	4.1796	4.7173
373	21.802	0.00249600	0.00408	1968-8	2237.98	269.2	4.2292	4.6458
373.99	22.064	0.003106	0.00310	2085.9	2085.9	0.0	4.4092	4.4092

本表引自严家录、余晓福编著《水和水蒸汽热力性质图表》,高等教育出版社,1995

附表 17 饱和水和饱和水蒸气热力性质表(按压力排列)

压力								
МРа	温度℃	比体积	m^3/kg	比焓	kJ/kg	汽化潜热	比熵 私	$/(kg \cdot K)$
p	t	液体	蒸 汽	液体	蒸汽	kJ/kg	液体	蒸汽
		ν'	ν"	h^+	h"	y	ς'	ς"
0.0010	6.9491	0.001000	129. 185	29. 21	2513. 29	2484. 1	0.1056	8.9735
0.0020	17. 540	0.001001	67.008	73. 58	2532.71	2459. 1	0.2611	8.7220
0.0030	24. 114	0.001002	45.666	101.07	2544. 68	2443.6	0.3546	8. 5758
0.0040	28. 953	0.001004	34. 796	121.30	2553.45	2432. 2	0.4221	8. 4725
0.0050	32.879	0.001005	28. 101	137. 72	2560.55	2422.8	0.4761	8.3930
0.0060	36. 166	0.001006	23. 738	151.47	2566. 48	2415.0	0.5208	8. 3283
0.0070	38.996	0.001007	20. 528	163. 31	2571.56	2408.3	0.5589	8. 2737
0.0080	41.507	0,001008	18. 102	173.81	2576.06	2402.3	0.5924	8. 2266
0.0090	43.790	0.001009	16. 204	183. 36	2580. 15	2396.8	0.6226	8. 1854
0.010	45. 798	0.001010	14.673	191.76	2583. 72	2392.0	0.6490	8. 1481
0.015	53.970	0.001014	10.022	225. 93	2598. 21	2372. 3	0.7548	8.0065
0.020	60.065	0.001017	7.6497	251. 43	2608.90	2357. 5	0.8320	7. 9068
0.025	64. 972	0.001019	6. 2047	271.96	2617. 43	2345. 5	0.8932	7.8298
0.030	69. 104	0.001022	5. 2296	289. 26	2624. 56	2335. 3	0.9440	7. 7671
0.040	75. 872	0.001026	3.9939	317. 61	2636.10	2318.5	1.0260	7. 6688
0.050	81. 338	0.001029	3. 2409	340. 55	2645. 31	2304.8	1.0912	7. 5928
0.060	85. 949	0.001033	2. 7324	359. 91	2652. 97	2293. 1	1. 1454	7. 5310
0.070	89. 955	0.001035	2. 3654	376. 75	2659. 55	2282.8	1. 1921	7. 4789
压力 <i>MPa</i>	温度℃	比体积	m³/kg	比焓	kJ/kg	汽化潜热	比熵 ㎏.	/(kg · K)
р	t	液体	蒸汽	液体	蒸汽	kJ/kg	液体	蒸汽

		v'	ν"	h'	h"	1/	s ¹	s"
0.080	93. 510			391.71	2665. 33	2273. 6	1. 2330	7. 4339
0.090	96. 712		1. 8698	405. 20	2670. 48	2265. 3	1. 2696	7. 3943
0.10	99. 634			417. 52	2675. 14	2257. 6	1. 3028	7. 3589
0. 12	104. 81			439. 37	2683-26	2243. 9	1. 3609	7. 2978
0.14	109. 31			458. 44	2690. 22	2231.8	1. 4110	7. 2462
0. 16	113. 32			475. 42	2696. 29	2220. 9	1. 4552	7. 2016
0. 18		0. 00105		490.76	2701. 69	2210. 9	1. 4946	7. 1623
0. 20	120. 24			504. 78	2706. 53	2201. 7	1. 5303	7. 1272
0. 25		0.00106		535. 47	2716-83	2181. 4	1. 6075	7. 0528
0.30	133. 55		0. 6058	561. 58	2725. 26	2163. 7	1. 6721	6. 9921
0.35	138. 89		0. 5242	584. 45	2732. 37	2147. 9	1. 7278	6. 9407
0.40		0. 00108	0. 4624	604. 87	2738. 49	2133.6	1. 7769	6. 8961
0. 50	151. 86			640. 35	2748. 59	2108. 2	1. 8610	6. 8214
0.60	158. 86		0. 3156	670. 67	2756. 66	2086. 0	1. 9315	6. 7600
0.70	164. 98		0. 2728	697. 32	2763. 29	2066. 0	1. 9925	6. 7079
0.80		0.00111	0. 2403	721. 20	2768. 86	2047. 7	2. 0464	6. 6625
0.90	175. 38		0. 2149	742.90	2773. 59	2030. 7	2. 0948	6. 6222
1.00	179. 91		0. 1943	762.84	2777.67	2014. 8	2. 1388	6. 5859
			ı					
1 压力								
压力 <i>MPa</i>	温度℃	比体积	m^3/kg	比焓	kJ/kg	汽化潜热	比熵 <i>Ы</i> /	(kg·K)
	温度℃ <i>t</i>	比体积液体	m³/kg 蒸汽	比焓液体	kJ/kg 蒸汽	汽化潜热 <i>kJ/k</i> g	比熵 <i>Ы</i> /	(kg·K) 蒸汽
МРа								
МРа		液体	蒸 汽 ""	液体	蒸汽	kJ/kg	液体	蒸汽
MPa p	t	液体 v' 0.00113	蒸 汽 ッ" 0.1774	液 体 h'	蒸 汽 h"	kJ/kg Y	液 体 s'	蒸汽。"
<i>MPa p</i> 1.10	184. 10 187. 99	液体 v' 0.00113	蒸汽 ッ" 0.1774 0.1632	液体 h' 781.35	蒸汽 h" 2781.21	kJ/kg 1/ 999.9 985.7	液体 5' 2.1792	蒸汽 s " 6.5529
MPa p 1.10 1.20	184. 10 187. 99	液体 ッ' 0.00113 0.00113 0.00114	蒸汽 ッ" 0.1774 0.1632 0.1512	液体 h' 781.35 798.64	蒸汽 h" 2781.21 2784.29	kJ/kg 1/ 999.9 985.7	液体 s' 2.1792 2.2166	蒸汽 s " 6.5529 6.5225
MPa p 1.10 1.20 1.30	\$ 184. 10 187. 99 191. 64	液体 ッ' 0.00113 0.00113 0.00114 0.00114	蒸汽 ッ" 0.1774 0.1632 0.1512 0.1407	液体 h' 781.35 798.64 814.89	蒸汽 h" 2781.21 2784.29 2786.99	kJ/kg y 999.9 985.7 972.1	液体 s' 2.1792 2.2166 2.2515	蒸汽 s" 6.5529 6.5225 6.4944
MPa p 1. 10 1. 20 1. 30 1. 40	184. 10 187. 99 191. 64 195. 07	液体 v' 0.00113 0.00113 0.00114 0.00115	蒸汽 ッ" 0.1774 0.1632 0.1512 0.1407 0.1317	液体 h' 781.35 798.64 814.89 830.24	蒸汽 h" 2781.21 2784.29 2786.99 2789.37	kJ/kg y 999. 9 985. 7 972. 1 959. 1	液体 s' 2.1792 2.2166 2.2515 2.2841	蒸汽 s " 6.5529 6.5225 6.4944 6.4683
MPa p 1. 10 1. 20 1. 30 1. 40 1. 50 1. 60 1. 70	184. 10 187. 99 191. 64 195. 07 198. 32	液体 v' 0.00113 0.00114 0.00114 0.00115 0.00115	蒸汽 ッ" 0.1774 0.1632 0.1512 0.1407 0.1317 0.1237	液体 h' 781.35 798.64 814.89 830.24 844.82	蒸汽 h" 2781.21 2784.29 2786.99 2789.37 2791.46	kJ/kg γ 999. 9 985. 7 972. 1 959. 1 946. 6	液体 s' 2.1792 2.2166 2.2515 2.2841 2.3149	蒸汽 s " 6.5529 6.5225 6.4944 6.4683 6.4437
MPa p 1. 10 1. 20 1. 30 1. 40 1. 50 1. 60	184. 10 187. 99 191. 64 195. 07 198. 32 201. 41	液体 ッ' 0.00113 0.00114 0.00114 0.00115 0.00115 0.00116	蒸汽 ッ" 0.1774 0.1632 0.1512 0.1407 0.1317 0.1237 0.1166	液体 h' 781.35 798.64 814.89 830.24 844.82 858.69	蒸汽 h" 2781.21 2784.29 2786.99 2789.37 2791.46 2793.29	**************************************	液体 s' 2.1792 2.2166 2.2515 2.2841 2.3149 2.3440	蒸汽 s" 6. 5529 6. 5225 6. 4944 6. 4683 6. 4437 6. 4206
MPa p 1. 10 1. 20 1. 30 1. 40 1. 50 1. 60 1. 70	# 184. 10 187. 99 191. 64 195. 07 198. 32 201. 41 204. 34	液体 v' 0.00113 0.00114 0.00114 0.00115 0.00115 0.00116	蒸汽 ッ" 0.1774 0.1632 0.1512 0.1407 0.1317 0.1237 0.1166 0.1103	液体 h' 781.35 798.64 814.89 830.24 844.82 858.69 871.96	蒸汽 h" 2781. 21 2784. 29 2786. 99 2789. 37 2791. 46 2793. 29 2794. 91	#J/#g 999. 9 985. 7 972. 1 959. 1 946. 6 934. 6 923. 0	液体 s' 2.1792 2.2166 2.2515 2.2841 2.3149 2.3440 2.3716	蒸汽 ま" 6.5529 6.5225 6.4944 6.4683 6.4437 6.4206 6.3988
MPa p 1. 10 1. 20 1. 30 1. 40 1. 50 1. 60 1. 70 1. 80	# 184. 10 187. 99 191. 64 195. 07 198. 32 201. 41 204. 34 207. 15	液体 v' 0.00113 0.00114 0.00114 0.00115 0.00115 0.00116 0.00117	蒸汽 ッ" 0.1774 0.1632 0.1512 0.1407 0.1317 0.1237 0.1166 0.1103 0.1047	液体 h' 781.35 798.64 814.89 830.24 844.82 858.69 871.96 884.67	蒸汽 h" 2781.21 2784.29 2786.99 2789.37 2791.46 2793.29 2794.91 2796.33	#J/#g 999.9 985.7 972.1 959.1 946.6 934.6 923.0 911.7	液体 s' 2.1792 2.2166 2.2515 2.2841 2.3149 2.3440 2.3716 2.3979	蒸汽 s" 6.5529 6.5225 6.4944 6.4683 6.4437 6.4206 6.3988 6.3781
MPa p 1. 10 1. 20 1. 30 1. 40 1. 50 1. 60 1. 70 1. 80 1. 90	t 184. 10 187. 99 191. 64 195. 07 198. 32 201. 41 204. 34 207. 15 209. 83	液体 ッ' 0.00113 0.00114 0.00114 0.00115 0.00115 0.00116 0.00117 0.00117	蒸汽 ッ" 0.1774 0.1632 0.1512 0.1407 0.1317 0.1237 0.1166 0.1103 0.1047 0.0995	液体	蒸汽 h" 2781. 21 2784. 29 2786. 99 2789. 37 2791. 46 2793. 29 2794. 91 2796. 33 2797. 58	#J/#g 999.9 985.7 972.1 959.1 946.6 934.6 923.0 911.7 900.7	液体 s' 2.1792 2.2166 2.2515 2.2841 2.3149 2.3440 2.3716 2.3979 2.4230	蒸汽 s " 6.5529 6.5225 6.4944 6.4683 6.4437 6.4206 6.3988 6.3781 6.3583
MPa p 1. 10 1. 20 1. 30 1. 40 1. 50 1. 60 1. 70 1. 80 1. 90 2. 00 2. 20 2. 40	# 184. 10 187. 99 191. 64 195. 07 198. 32 201. 41 204. 34 207. 15 209. 83 212. 41	液体 ッ' 0.00113 0.00114 0.00114 0.00115 0.00115 0.00116 0.00117 0.00117	蒸汽 ッ" 0.1774 0.1632 0.1512 0.1407 0.1317 0.1237 0.1166 0.1103 0.1047 0.0995 0.0907	液体 h' 781. 35 798. 64 814. 89 830. 24 844. 82 858. 69 871. 96 884. 67 896. 88 908. 64	蒸汽 h" 2781. 21 2784. 29 2786. 99 2789. 37 2791. 46 2793. 29 2794. 91 2796. 33 2797. 58 2798. 66	#J/#g 999. 9 985. 7 972. 1 959. 1 946. 6 934. 6 923. 0 911. 7 900. 7 890. 0	液体 s' 2.1792 2.2166 2.2515 2.2841 2.3149 2.3440 2.3716 2.3979 2.4230 2.4471	蒸汽 ま" 6.5529 6.5225 6.4944 6.4683 6.4437 6.4206 6.3988 6.3781 6.3583 6.3395
MPa p 1. 10 1. 20 1. 30 1. 40 1. 50 1. 60 1. 70 1. 80 1. 90 2. 00 2. 20	t 184. 10 187. 99 191. 64 195. 07 198. 32 201. 41 204. 34 207. 15 209. 83 212. 41 217. 28	液体 v' 0.00113 0.00114 0.00114 0.00115 0.00115 0.00116 0.00117 0.00117 0.00118 0.00119	蒸汽 ッ" 0.1774 0.1632 0.1512 0.1407 0.1317 0.1237 0.1166 0.1103 0.1047 0.0995 0.0907 0.0832	液体 h' 781.35 798.64 814.89 830.24 844.82 858.69 871.96 884.67 896.88 908.64 930.97	蒸汽 h" 2781. 21 2784. 29 2786. 99 2789. 37 2791. 46 2793. 29 2794. 91 2796. 33 2797. 58 2798. 66 2800. 41	#J/kg 999. 9 985. 7 972. 1 959. 1 946. 6 934. 6 923. 0 911. 7 900. 7 890. 0 1869. 4	液体 s' 2. 1792 2. 2166 2. 2515 2. 2841 2. 3149 2. 3440 2. 3716 2. 3979 2. 4230 2. 4471 2. 4924	蒸汽 s" 6.5529 6.5225 6.4944 6.4683 6.4437 6.4206 6.3988 6.3781 6.3583 6.3583 6.3041
MPa p 1. 10 1. 20 1. 30 1. 40 1. 50 1. 60 1. 70 1. 80 2. 00 2. 20 2. 40 2. 60 2. 80	# 184. 10 187. 99 191. 64 195. 07 198. 32 201. 41 204. 34 207. 15 209. 83 212. 41 217. 28 221. 82	液体 v' 0.00113 0.00114 0.00114 0.00115 0.00115 0.00116 0.00117 0.00117 0.00118 0.00119	蒸汽 ッ" 0.1774 0.1632 0.1512 0.1407 0.1317 0.1237 0.1166 0.1103 0.1047 0.0995 0.0907 0.0832 0.0768	液体	蒸汽 h" 2781. 21 2784. 29 2786. 99 2789. 37 2791. 46 2793. 29 2794. 91 2796. 33 2797. 58 2798. 66 2800. 41 2801. 67	#J/#g 999.9 985.7 972.1 959.1 946.6 934.6 923.0 911.7 900.7 890.0 1869.4 1849.8	液体 s' 2. 1792 2. 2166 2. 2515 2. 2841 2. 3149 2. 3440 2. 3716 2. 3979 2. 4230 2. 4471 2. 4924 2. 5344	蒸汽 寒 " 6.5529 6.5225 6.4944 6.4683 6.4437 6.4206 6.3988 6.3781 6.3583 6.3583 6.3041 6.2714
MPa p 1. 10 1. 20 1. 30 1. 40 1. 50 1. 60 1. 70 1. 80 1. 90 2. 00 2. 20 2. 40 2. 60 2. 80 3. 00	# 184. 10 187. 99 191. 64 195. 07 198. 32 201. 41 204. 34 207. 15 209. 83 212. 41 217. 28 221. 82 226. 08	液体 v' 0.00113 0.00114 0.00114 0.00115 0.00115 0.00116 0.00116 0.00117 0.00117 0.00118 0.00119 0.00120	蒸汽 ッ" 0.1774 0.1632 0.1512 0.1407 0.1317 0.1237 0.1166 0.1103 0.1047 0.0995 0.0907 0.0832 0.0768 0.0714	液体 h' 781. 35 798. 64 814. 89 830. 24 844. 82 858. 69 871. 96 884. 67 896. 88 908. 64 930. 97 951. 91 971. 67	蒸汽 h" 2781. 21 2784. 29 2786. 99 2789. 37 2791. 46 2793. 29 2794. 91 2796. 33 2797. 58 2798. 66 2800. 41 2801. 67 2802. 51	#J/#g 999.9 985.7 972.1 959.1 946.6 934.6 923.0 911.7 900.7 890.0 1869.4 1849.8 1830.8	液体 s' 2.1792 2.2166 2.2515 2.2841 2.3149 2.3440 2.3716 2.3979 2.4230 2.4471 2.4924 2.5344 2.5736	蒸汽 5 " 6.5529 6.5225 6.4944 6.4683 6.4437 6.4206 6.3988 6.3781 6.3583 6.3583 6.3395 6.3041 6.2714 6.2409
MPa p 1. 10 1. 20 1. 30 1. 40 1. 50 1. 60 1. 70 1. 80 2. 00 2. 20 2. 40 2. 60 2. 80	# 184. 10 187. 99 191. 64 195. 07 198. 32 201. 41 204. 34 207. 15 209. 83 212. 41 217. 28 221. 82 226. 08 230. 09	液体 v' 0.00113 0.00114 0.00114 0.00115 0.00115 0.00116 0.00117 0.00117 0.00118 0.00119 0.00120	蒸汽 ッ" 0.1774 0.1632 0.1512 0.1407 0.1317 0.1237 0.1166 0.1103 0.1047 0.0995 0.0907 0.0832 0.0768 0.0714 0.0666	液体 h' 781.35 798.64 814.89 830.24 844.82 858.69 871.96 884.67 896.88 908.64 930.97 951.91 971.67 990.41	蒸汽 h" 2781. 21 2784. 29 2786. 99 2789. 37 2791. 46 2793. 29 2794. 91 2796. 33 2797. 58 2798. 66 2800. 41 2801. 67 2802. 51 2803. 01	#J/kg 999.9 985.7 972.1 959.1 946.6 934.6 923.0 911.7 900.7 890.0 1869.4 1849.8 1830.8	液体 s' 2. 1792 2. 2166 2. 2515 2. 2841 2. 3149 2. 3440 2. 3716 2. 3979 2. 4230 2. 4471 2. 4924 2. 5344 2. 5736 2. 6105	蒸汽 s" 6. 5529 6. 5225 6. 4944 6. 4683 6. 4437 6. 4206 6. 3988 6. 3781 6. 3583 6. 3583 6. 3041 6. 2714 6. 2409 6. 2123

5.00	263. 98	0.00128	0.0394	1154. 2	2793. 64	1639. 5	2. 9201	5. 9724
压力 MPa	温度℃	比体积	m³/kg	比焓	kJ / kg	汽化潜热	比熵 <i>Ы</i> /(kg·K)
p	t	液体	蒸汽	液体	蒸汽	kJ/kg	液体	蒸汽
		ν'	ν"	h^+	h"	7	Σ'	ς"
6.00	275.62	0.00131	0.0324	1213.3	2783.8	1570.5	3.0266	5.8885
7.00	285.86	0.00135	0.0273	1266.9	2771.7	1504.8	3. 1210	5.8129
8.00	295.04	0.00138	0.0235	1316.5	2757.7	1441.2	3. 2066	5. 7430
9.00	303.38	0.00141	0.0204	1363.1	2741.9	1378.9	3. 2854	5. 6771
10.0	311.03	0.00145	0.0180	1407.2	2724.4	1317.2	3. 3591	5. 6139
11.0	318. 11	0.00148	0.0159	1449.6	2705.3	1255.7	3. 4287	5. 5525
12.0	324.71	0.00152	0.0142	1490.7	2684.5	1193.8	3. 4952	5. 4920
13.0	330.89	0.00156	0.0127	1530.8	2661.8	1131.0	3. 5594	5. 4318
14.0	336.70	0.00160	0.0114	1570.4	2637.0	1066.7	3.6220	5. 3711
15.0	342. 19	0.00165	0.0103	1609.8	2610.0	1000.2	3.6836	5. 3091
16.0	347. 39	0.00170	0.0093	1649.4	2580. 2	930.8	3. 7451	5. 2450
17.0	352 . 33	0.00177	0.0083	1690.0	2547.0	857. 1	3.8073	5. 1776
18.0	357.03	0.00184	0.0075	1732.0	2509.4	777.4	3.8715	5. 1051
19.0	361.51	0.00192	0.0066	1776.9	2465.8	688.9	3. 9395	5.0250
20.0	365. 78	0.00203	0.0058	1827.2	2413.0	585.9	4. 0153	4. 9322
21.0	369.86	0.00220	0.0050	1889.2	2341.6	452. 4	4. 1088	4. 8124
22.0	373.75	0.00270	0.0036	2013.0	2084.0	71.0	4. 2969	4. 4066
22.064	373.99	0.00310	0.0031	2085.9	2085. 9	0.0	4. 4092	4. 4092

本表引自严家录、余晓福编著《水和水蒸汽热力性质图表》,高等教育出版社,1995

附表18 未饱和水与过热水蒸气热力性质表

p		0.001 <i>MP</i>	а	0.005 <i>MPa</i>			
		$(t_s = 6.949^\circ)$	<i>C</i>)	(i	$t_s = 32.879^{\circ}$	<i>C</i>)	
	v'	h'	s'	v'	h'	s'	
	0.001001	29.21	0.1056	0.0010053	137.72	0.4761	
	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$	
	v"	h"	s'	v"	h"	s'	

	0.001001	29.21	0.1056	28.191	2560.6	8.3930
	m^3/kg	kJ/kg	$kJ/(kg\cdot K)$	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$
t	v	h	S	v	h	S
$^{\circ}$ C	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$
0	0.001002	-0.05	-0.0002	0.0010002	-0.05	-0.0002
10	130.598	2519.0	8.9938	0.0010003	42.01	0.1510
20	135.226	2537.7	9.0588	0.0010018	83.87	0.2963
40	144.475	2575.2	9.1823	28.854	2574.0	8.43466
60	153.717	2612.7	9.2984	30.712	2611.8	8.5537
80	162.956	2650.3	9.4080	32.566	2649.7	8.6639
100	172.192	2688.0	9.5120	34.418	2687.5	8.7682
120	181.426	2725.9	9.6109	36.269	2725.5	8.8674
140	190.660	2764.0	9.7054	38.118	2763.7	8.9620
160	199.893	2802.3	9.7959	39.967	2802.0	9.0526
180	209.126	2840.7	9.8827	41.815	2840.5	9.1396
200	218.358	2879.4	9.9662	43.662	2879.2	9.2232
220	227.590	2918.3	10.0468	.45.510	2918.2	9.3038
240	236.821	2957.5	10.1246	47.357	2957.3	9.3816
260	246.053	2996.8	10.1998	49.204	2996.7	9.4569
280	255.284	3036.4	10.2727	51.051	3036.3	9.5298
300	264.515	3076.2	10.3434	52.898	3076.1	9.6005
350	287.592	3176.8	10.5117	57.514	3176.7	9.7688
400	310.669	3278.9	10.6692	62.131	3278.8	9.9264
450	333.746	3382.4	10.8176	66.747	3382.4	10.0747
500	356.823	3487.5	10.9581	71.362	3487.5	10.2153
550	379.900	3594.4	11.0921	75.978	3594.4	10.3493
600	402.976	3703.4	11.2206	80.594	3703.4	10.4778
p		0.010 <i>MF</i>	Pa		0.10 <i>MH</i>	Pa

	($t_s = 45.799$	9°C)		$(t_s = 99.634^{\circ}C)$			
	v'	h'	s'	<i>v</i> '	h'	s'		
	0.0010103	191.76	1.3028	0.0010431	417.52	1.3028		
	m^3/kg	kJ/kg	$kJ/(kg\cdot K)$	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$		
	ν"	h"	<i>s</i> '	v"	h"	s'		
	14.673	2583.7	8.1481	1.6943	2675.1	7.3589		
	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$		
t	ν	h	S	ν	h	S		
$^{\circ}$	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$		
0	0.0010002	-0.04	-0.0002	0.0010002	0.05	-0.0002		
10	0.0010003	42.01	0.1510	0.0010003	42.10	0.1510		
20	0.0010018	83.87	0.2963	0.0010018	83.96	0.2963		
40	0.0010079	167.51	0.5723	0.0010078	167.59	0.5723		
60	15.336	2610.8	8.2313	0.0010171	251.22	0.8312		
80	16.268	2648.9	8.3422	0.0010290	334.97	1.0753		
100	17.196	2686.9	8.4471	1.6961	2675.9	7.3609		
120	18.124	2725.1	8.5466	1.7931	2716.3	7.4665		
140	19.050	2763.3	8.6414	1.8889	2756.2	7.5654		
160	19.976	2801.7	8.7322	1.9838	2795.8	7.6590		
180	20.901	2840.2	8.8192	2.0783	2835.3	7.7482		
200	21.826	2879.0	8.9029	2.1723	2874.8	7.8334		
220	22.750	2918.0	8.9835	2.2659	2914.3	7.9152		
240	23.674	2957.1	9.0614	2.3594	2953.9	7.9940		
260	24.598	2996.5	9.1367	2.4527	2993.7	8.0701		
280	25.522	3036.2	9.2097	2.5458	3033.6	8.1436		
300	26.446	3076.0	9.2805	2.6388	3073.8	8.2148		
350	28.755	3176.6	9.4488	2.8709	3174.9	8.3840		
400	31.063	3278.7	9.6064	3.1027	3277.3	8.5422		
450	33.372	3382.3	9.7548	3.3342	3381.2	8.6909		
500	35.680	3487.4	9.8953	3.5656	3486.5	8-8317		
550	37.988	3594.3	10.0293	3.7968	3593.5	8.9659		
600	40.296	3703.4	10.1579	4.0279	3702.7	9.0946		

p		0.5 <i>MPa</i>	l	1МРа			
	(t _s	$s_s = 151.86$	7° <i>C</i>)		$(t_s = 179.9)$	16° <i>C</i>)	
	v'	h'	s'	v'	h'	s'	
	0.0010925	640.35	5 1.8610	0.00112	72 762.84	4 2.3188	
	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$	
	ν"	h"	s"	v"	h"	s''	
	0.37490	2748.6	6.8214	0.191440	2777.	7 6.5859	
	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$	m^3/kg	kJ/kg	$kJ/(kg\cdot K)$	
t ℃	v m^3/kg	h kJ/kg	s $kJ/(kg \cdot K)$	v m^3/kg	h kJ/kg	$s \\ kJ/(kg \cdot K)$	
0	0.0010000	0.46	-0.0001	0.0009997	0.97	-0.0001	
10	0.0010001	42.49	0.1510	0.0009999	42.98	0.1509	
20	0.0010016	84.33	0.2962	0.0010014	84.80	0.2961	
40	0.0010077	167.94	0.5721	0.0010074	168.38	0.5719	
60	0.0010169	251.56	0.8310	0.0010167	251.98	0.8307	
80	0.0010288	335.29	1.0750	0.0010286	335.69	1.0747	
100	0.0010432	419.36	1.3066	0.0010430	419.74	1.3062	
120	0.0010601	503.97	1.5275	0.0010599	504.32	1.5270	
140	0.0010796	589.30	1.7392	0.0010783	589.62	1.7386	
160	0.38358	2767.2	6.8647	0.0011017	675.84	1.9424	
180	0.40450	2811.7	6.9651	0.19443	2777.9	6.5864	
200	0.42487	2854.9	7.0585	0.20590	2827.3	6.6931	
220	0.44485	2897.3	7.1462	0.21686	2874.2	6.7903	
240	0.46455	2939.2	7.2295	0.22745	2919.6	6.8804	
260	0.48404	2980.8	7.3091	0.23779	2963.8	6.9650	
280	0.50336	3022.2	7.3853	0.24793	3007.3	7.0451	
300	0.52255	3063.6	7.4588	0.25793	3050.4	7.1216	
350	0.57012	3167.0	7.6319	0.28247	3157.0	7.2999	
400	0.61729	3271.1	7.7924	0.30658	3263.1	7.4638	
420	0.63608	3312-9	7.8537	0.31615	3305.6	7.5260	
440	0.65483	3354-9	7.9135	0.32568	3348.2	7.5866	
450	0.66420	3376.0	7.9428	0.33043	3369.6	7.6163	

4.40	===					
460	0.67356	3397.2	7.9719	0.33518	3390.9	7.6456
480	0.69226	3439.6	8.0289	0.34465	3433.8	7.7033
500	0.71094	3482.2	8.0848	0.35410	3476.8	7.7597
550	0.75755	3589.9	8.2198	0.37764	3585.4	7.8958
600	0.80408	3699.6	8.3491	0.40109	3695.7	8.0259
p		3МРа			5MPa	!
	(t	$s_s = 233.89$	3°C)		$(t_s = 263.98)$	30°C)
	v'	h'	s'	<i>v</i> '	h'	s'
	0.0012166	1008.2	2.6454	0.001286	51 1154.2	2 2.9200
	m^3/kg	kJ/kg	$kJ/(kg\cdot K)$	m^3/kg	kJ/kg	$kJ/(kg\cdot K)$
ļ	ν"	h"	s"	v"	h''	s"
	0.066700	2803.2	2 6.1854	0.039400	2793.0	5.9724
	m^3/kg	kJ / kg	$kJ/(kg \cdot K)$	m^3/kg	kJ/kg	$kJ/(kg\cdot K)$
t	v	h	S	ν	h	S
$^{\circ}$ C	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$
0	0.0009987	3.01	0.0000	0.0009977	5.04	0.0002
10	0.0009989	44.92	0.1507	0.0009979	46.87	0.1506
20	0.0010005	86.68	0.2957	0.0009996	88.55	0.2952
40	0.0010066	170.15	0.5711	0.0010057	171.92	0.5704
60	0.0010158	253.66	0.8296	0.0010149	255.34	0.8286
80	0.0010276	377.28	1.0734	0.0010267	338.87	1.0721
100	0.0010420	421.24	1.3047	0.0010410	422.75	1.3031
120	0.0010587	505.73	1.5252	0.0010576	507.14	1.5234
140	0.0010781	590.92	1.7366	0.0010768	592.23	1.7345
160	0.0011002	677.01	1.9400	0.0010988	678.19	1.9377
180	0.0011256	764.23	2.1369	0.0011240	765.25	2.1342
200	0.0011549	852.93	2.3284	0.0011529	853.75	2.3253
220	0.0011891	943.65	2.5162	0.0011867	944.21	2.5125
240	0.0011071			 		
240	0.068184	2823.4	6.2250	0.0012266	1037.3	2.6976
260		2823.4 2884.4	6.2250 6.3417	0.0012266 0.0012751	1037.3 1134.3	2.6976 2.8829
	0.068184					

350 0.090520 3114.4 6.7414 0.051932 3067.4 6.4477 400 0.099352 3230.1 6.9199 0.057804 3194.9 6.6446 420 0.102787 3275.4 6.9864 0.060033 3243.6 6.7159 440 0.106180 3320.5 7.0505 0.062216 3291.5 6.7840 450 0.107864 3343.0 7.0817 0.063291 3315.2 6.8170 460 0.109540 3365.4 7.1125 0.064358 3338.8 6.8494 480 0.112870 3410.1 7.1728 0.066469 3385.6 6.9125 500 0.116174 3454.9 7.2314 0.068552 3432.2 6.9735 550 0.124349 3566.9 7.3718 0.073664 3548.0 7.1187 600 0.132427 3679.9 7.5051 0.078675 3663.9 7.2553		1	1		T		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	350	0.090520	3114.4	6.7414	0.051932	3067.4	6.4477
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	400	0.099352	3230.1	6.9199	0.057804	3194.9	6.6446
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	420	0.102787	3275.4	6.9864	0.060033	3243.6	6.7159
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	440	0.106180	3320.5	7.0505	0.062216	3291.5	6.7840
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	450	0.107864	3343.0	7.0817	0.063291	3315.2	6.8170
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	460	0.109540	3365.4	7.1125	0.064358	3338.8	6.8494
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	480	0.112870	3410.1	7.1728	0.066469	3385.6	6.9125
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	500	0.116174	3454.9	7.2314	0.068552	3432.2	6.9735
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	550	0.124349	3566.9	7.3718	0.073664	3548.0	7.1187
$ (t_s = 285.869 ^{\circ}C) \qquad (t_s = 311.037 ^{\circ}C) $ $v' \qquad h' \qquad s' \qquad v' \qquad h' \qquad s' $ $0.0013515 \qquad 1266.9 \qquad 3.1210 \qquad 0.0014522 \qquad 1407.2 \qquad 3.3591 $ $m^3/kg \qquad kJ/kg \qquad kJ/(kg \cdot K) \qquad m^3/kg \qquad kJ/kg \qquad kJ/(kg \cdot K) $ $v'' \qquad h'' \qquad s'' \qquad v'' \qquad h'' \qquad s'' $ $0.027400 \qquad 2771.7 \qquad 5.8129 \qquad 0.018000 \qquad 2724.5 \qquad 5.6139 $ $m^3/kg \qquad kJ/kg \qquad kJ/(kg \cdot K) \qquad m^3/kg \qquad kJ/kg \qquad kJ/(kg \cdot K) $ $t \qquad v \qquad h \qquad s \qquad v \qquad h \qquad s \qquad kJ/(kg \cdot K) $ $0 \qquad 0.0009967 \qquad 7.07 \qquad 0.0003 \qquad 0.0009952 \qquad 10.09 \qquad 0.0004 $ $10 \qquad 0.0009970 \qquad 48.80 \qquad 0.1504 \qquad 0.0009956 \qquad 51.70 \qquad 0.1550 $ $20 \qquad 0.0009986 \qquad 90.42 \qquad 0.2948 \qquad 0.0009973 \qquad 93.22 \qquad 0.2942 $ $40 \qquad 0.0010048 \qquad 173.69 \qquad 0.5696 \qquad 0.0010035 \qquad 176.34 \qquad 0.5684 $ $60 \qquad 0.0010140 \qquad 257.01 \qquad 0.8275 \qquad 0.0010127 \qquad 259.53 \qquad 0.8259 $ $80 \qquad 0.0010258 \qquad 340.46 \qquad 1.0708 \qquad 0.0010244 \qquad 342.85 \qquad 1.0688 $ $100 \qquad 0.0010399 \qquad 424.25 \qquad 1.3016 \qquad 0.0010244 \qquad 342.85 \qquad 1.0688 $ $100 \qquad 0.0010399 \qquad 424.25 \qquad 1.3016 \qquad 0.0010244 \qquad 342.85 \qquad 1.0688 $ $100 \qquad 0.0010565 \qquad 508.55 \qquad 1.5216 \qquad 0.0010549 \qquad 510.68 \qquad 1.5190 $ $140 \qquad 0.0010756 \qquad 593.54 \qquad 1.7325 \qquad 0.0010738 \qquad 595.50 \qquad 1.7924 $ $160 \qquad 0.0010974 \qquad 679.37 \qquad 1.9353 \qquad 0.0010953 \qquad 681.16 \qquad 1.9319 $	600	0.132427	3679.9	7.5051	0.078675	3663.9	7.2553
v' h' s' v' h' s' 0.0013515 1266.9 3.1210 0.0014522 1407.2 3.3591 m³/kg kJ/kg kJ/kg kJ/(kg·K) m³/kg kJ/kg kJ/(kg·K) v" h" s" v" h" s" 0.027400 2771.7 5.8129 0.018000 2724.5 5.6139 m³/kg kJ/kg kJ/(kg·K) m³/kg kJ/kg kJ/(kg·K) t v h s v h s C m³/kg kJ/kg kJ/(kg·K) m³/kg kJ/kg kJ/(kg·K) 0 0.0009967 7.07 0.0003 0.0009952 10.09 0.0004 10 0.0009970 48.80 0.1504 0.0009956 51.70 0.1550 20 0.0009986 90.42 0.2948 0.0009973 93.22 0.2942 40 0.001048 173.69 0.5696 0.0010035 176.34 0.5684	p		7МРа			10 <i>MP</i> o	a
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		(t_s)	$_{s} = 285.86$	59°C)		$(t_s = 311.03)$	37°C)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		v'	h'	s'	<i>v</i> '	h'	s'
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0.0013515	1266.9	3.1210	0.001452	22 1407.2	2 3.3591
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		m^3/kg	kJ/kg	$kJ/(kg \cdot K)$	m^3/kg	<i>kJ / kg</i>	$kJ/(kg \cdot K)$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		ν"	h"	s"	ν"	h"	s"
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0.027400	2771.	7 5.8129	0.018000	2724.	5 5.6139
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		m^3/kg	kJ / kg	$kJ/(kg\cdot K)$	m^3/kg	kJ / kg	$kJ/(kg\cdot K)$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	t	v	h	S	v	h	S
10 0.0009970 48.80 0.1504 0.0009956 51.70 0.1550 20 0.0009986 90.42 0.2948 0.0009973 93.22 0.2942 40 0.0010048 173.69 0.5696 0.0010035 176.34 0.5684 60 0.0010140 257.01 0.8275 0.0010127 259.53 0.8259 80 0.0010258 340.46 1.0708 0.0010244 342.85 1.0688 100 0.0010399 424.25 1.3016 0.0010385 426.51 1.2993 120 0.0010565 508.55 1.5216 0.0010549 510.68 1.5190 140 0.0010756 593.54 1.7325 0.0010738 595.50 1.7924 160 0.0010974 679.37 1.9353 0.0010953 681.16 1.9319		m^3/kg		$kJ/(kg \cdot K)$	m^3/kg		$kJ/(kg \cdot K)$
20 0.0009986 90.42 0.2948 0.0009973 93.22 0.2942 40 0.0010048 173.69 0.5696 0.0010035 176.34 0.5684 60 0.0010140 257.01 0.8275 0.0010127 259.53 0.8259 80 0.0010258 340.46 1.0708 0.0010244 342.85 1.0688 100 0.0010399 424.25 1.3016 0.0010385 426.51 1.2993 120 0.0010565 508.55 1.5216 0.0010549 510.68 1.5190 140 0.0010756 593.54 1.7325 0.0010738 595.50 1.7924 160 0.0010974 679.37 1.9353 0.0010953 681.16 1.9319	0	0.0009967	7.07	0.0003	0.0009952	10.09	0.0004
40 0.0010048 173.69 0.5696 0.0010035 176.34 0.5684 60 0.0010140 257.01 0.8275 0.0010127 259.53 0.8259 80 0.0010258 340.46 1.0708 0.0010244 342.85 1.0688 100 0.0010399 424.25 1.3016 0.0010385 426.51 1.2993 120 0.0010565 508.55 1.5216 0.0010549 510.68 1.5190 140 0.0010756 593.54 1.7325 0.0010738 595.50 1.7924 160 0.0010974 679.37 1.9353 0.0010953 681.16 1.9319	10	0.0009970	48.80	0.1504	0.0009956	51.70	0.1550
60 0.0010140 257.01 0.8275 0.0010127 259.53 0.8259 80 0.0010258 340.46 1.0708 0.0010244 342.85 1.0688 100 0.0010399 424.25 1.3016 0.0010385 426.51 1.2993 120 0.0010565 508.55 1.5216 0.0010549 510.68 1.5190 140 0.0010756 593.54 1.7325 0.0010738 595.50 1.7924 160 0.0010974 679.37 1.9353 0.0010953 681.16 1.9319	20	0.0009986	90.42	0.2948	0.0009973	93.22	0.2942
80 0.0010258 340.46 1.0708 0.0010244 342.85 1.0688 100 0.0010399 424.25 1.3016 0.0010385 426.51 1.2993 120 0.0010565 508.55 1.5216 0.0010549 510.68 1.5190 140 0.0010756 593.54 1.7325 0.0010738 595.50 1.7924 160 0.0010974 679.37 1.9353 0.0010953 681.16 1.9319	40	0.0010048	173.69	0.5696	0.0010035	176.34	0.5684
100 0.0010399 424.25 1.3016 0.0010385 426.51 1.2993 120 0.0010565 508.55 1.5216 0.0010549 510.68 1.5190 140 0.0010756 593.54 1.7325 0.0010738 595.50 1.7924 160 0.0010974 679.37 1.9353 0.0010953 681.16 1.9319	60	0.0010140	257.01	0.8275	0.0010127	259.53	0.8259
120 0.0010565 508.55 1.5216 0.0010549 510.68 1.5190 140 0.0010756 593.54 1.7325 0.0010738 595.50 1.7924 160 0.0010974 679.37 1.9353 0.0010953 681.16 1.9319	80	0.0010258	340.46	1.0708	0.0010244	342.85	1.0688
140 0.0010756 593.54 1.7325 0.0010738 595.50 1.7924 160 0.0010974 679.37 1.9353 0.0010953 681.16 1.9319	100	0.0010399	424.25	1.3016	0.0010385	426.51	1.2993
160 0.0010974 679.37 1.9353 0.0010953 681.16 1.9319	120	0.0010565	508.55	1.5216	0.0010549	510.68	1.5190
	140	0.0010756	593.54	1.7325	0.0010738	595.50	1.7924
180 0.0011223 766.28 2.1315 0.0011199 767.84 2.1275	160	0.0010974	679.37	1.9353	0.0010953	681.16	1.9319
	180						
200 0.0011510 854.59 2.3222 0.0011481 855.88 2.3176		0.0011223	766.28	2.1315	0.0011199	767.84	2.1275

220	0.0011842	944.79	2.5089	0.0011807	945.71	2.5036	
240	0.0012235	1037.6	2.6933	0.0012190	1038.0	2.6870	
260	0.0012710	1134.0	2.8776	0.0012650	1133.6	2.8698	
280	0.0013307	1235.7	3.0648	0.0013222	1234.2	3.0549	
300	0.029457	2837.5	5.9291	0.0013975	1342.3	3.2469	
350	0.035225	3014.8	6.2265	0.022415	2922.1	5.9423	
400	0.039917	3157.3	6.4465	0.026402	3095.8	6.2109	
450	0.044143	3286.2	6.6314	0.029735	3240.5	6.4184	
500	0.048110	3408.9	6.7954	0.032750	3372.8	6.5954	
520	0.049649	3457.0	6.8569	0.033900	3423.8	6.6605	
540	0.051166	3504.8	6.9164	0.035027	3474.1	6.7232	
550	0.051917	3528.7	6.9456	0.035582	3499.1	6.7537	
560	0.052664	3552.4	6.9743	0.036133	3523.9	6.7837	
580	0.054147	3600.0	7.0306	0.037222	3573.3	6.8423	
600	0.055617	3647.5	7.0857	0.038297	3622.5	6.8992	
p	14 <i>MPa</i>			20.0MPa			
	$(t_s = 336.707^{\circ}C)$			$(t_s = 365.789^{\circ}C)$			
	v'	h'	s'	v'	h'	s'	
	0.0016097	1570.4	3.6220	0.002037	7 1827.2	4.0153	
	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$	m^3/kg	kJ/kg	$kJ/(kg\cdot K)$	
	v"	h"	s"	v"	h"	s"	
	0.011500	2637.1	5.3711	0.005870	2 2413	3.1 4.9322	
	m^3/kg	kJ / kg	$kJ/(kg \cdot K)$	m^3/kg	kJ / kg	$kJ/(kg \cdot K)$	
t	v	h	S	ν	h	S	
$^{\circ}$	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$	m^3/kg	kJ/kg	$kJ/(kg \cdot K)$	
0	0.0009933	14.10	0.0005	0.0009904	20.08	0.0006	
10	0.0009938	55.55	0.1496	0.0009911	61.29	0.1488	
20	0.0009955	96.95	0.2932	0.0009929	102.50	0.2919	
	0.0007755			1	105.10	0.5645	
40	0.0010018	179.86	0.5669	0.0009992	185.13	0.5645	
40 60		179.86 262.88	0.5669 0.8239	0.0009992 0.0010084	185.13 267.90	0.8207	
	0.0010018						

120	0.0010527	513.52	1.5155	0.0010496	517.79	1.5103
140	0.0010714	598.14	1.7254	0.0010679	602.12	1.7195
160	0.0010926	683.56	1.9273	0.0010886	687.20	1.9206
180	0.0011167	769.96	2.1223	0.0011121	773.19	2.1147
200	0.0011443	857.63	2.3116	0.0011389	860.36	2.3029
220	0.0011761	947.00	2.4966	0.0011695	949.07	2.4865
240	0.0012132	1038.6	2.6788	0.0012051	1039.8	2.6670
260	0.0012574	1133.4	2.8599	0.0012469	1133.4	2.8457
280	0.0013117	1232.5	3.0424	0.0012974	1230.7	3.0249
300	0.0013814	1338.2	3.2300	0.0013605	1333.4	3.2072
350	0.013218	2751.2	5.5564	0.0016645	1645.3	3.7275
400	0.017218	3001.1	5.9436	0.0099458	2816.8	5.5520
450	0.020074	3174.2	6.1919	0,0127013	3060.7	5.9025
500	0.022512	3322.3	6.3900	0.0147681	3239.3	6.1415
520	0.023418	3377.9	6.4610	0.0155046	3303.0	6.2229
540	0.024295	3432.1	6-5285	0.0162067	3364.0	6.2989
550	0.024724	3458.7	6.5611	0.0165471	3393.7	6.3352
7.00	0.025147	3485.2	6.5931	0.0168811	3422.9	6.3705
560	0.023147					
580	0.025978	3537.5	6.6551	0.0175328	3480.3	6.4385
		3537.5 3589.1	6.6551 6.7149	0.0175328 0.0181655	3480.3 3536.3	6.4385 6.5035
580	0.025978		6.7149			6.5035
580 600 p	0.025978	3589.1 25MPa	6.7149		3536.3 30MP	6.5035
580 600 p	0.025978 0.026792	3589.1 25MPa	6.7149 s	0.0181655 v	3536.3 30MP	6.5035 a
580 600 <i>p</i>	0.025978 0.026792 v m ³ /kg	3589.1 25MPa h kJ/kg	6.7149 s kJ/(kg·K)	0.0181655 v m ³ /kg	3536.3 30MP h kJ/kg	6.5035 a s kJ/(kg·K)
580 600 p t °C	0.025978 0.026792 v m ³ /kg 0.0009880	3589.1 25MPa h kJ/kg 25.01	6.7149 s kJ/(kg·K) 0.0006	0.0181655 v m³/kg 0.0009857	3536.3 30MP h kJ/kg 29.92	6.5035 a s kJ/(kg·K) 0.0005
580 600 p t °C 0	0.025978 0.026792 v m ³ /kg 0.0009880 0.0009888	3589.1 25MPa h kJ/kg 25.01 66.04	6.7149 s kJ/(kg·K) 0.0006 0.1481	0.0181655 v m³/kg 0.0009857 0.0009866	3536.3 30MP h kJ/kg 29.92 70.77	6.5035 a S $kJ/(kg \cdot K)$ 0.0005 0.1474
580 600 p t °C 0 10 20	0.025978 0.026792 v m ³ /kg 0.0009880 0.0009888 0.0009908	3589.1 25MPa h kJ/kg 25.01 66.04 107.11	6.7149 s $kJ/(kg \cdot K)$ 0.0006 0.1481 0.2907	0.0181655 v m³/kg 0.0009857 0.0009866 0.0009887	3536.3 30MP h kJ/kg 29.92 70.77 111.71	6.5035 a s kJ/(kg·K) 0.0005 0.1474 0.2895
580 600 p t °C 0 10 20 40	0.025978 0.026792 v m³/kg 0.0009880 0.0009988 0.0009908 0.0009972	3589.1 25MPa h kJ/kg 25.01 66.04 107.11 189.51	6.7149 s $kJ/(kg \cdot K)$ 0.0006 0.1481 0.2907 0.5626	0.0181655 v m³/kg 0.0009857 0.0009866 0.0009887 0.0009951	3536.3 30MP h kJ/kg 29.92 70.77 111.71 193.87	6.5035 a s kJ/(kg·K) 0.0005 0.1474 0.2895 0.5606
580 600 p t °C 0 10 20 40 60	0.025978 0.026792 v m³/kg 0.0009880 0.0009888 0.0009908 0.0009972 0.0010063	3589.1 25MPa h kJ/kg 25.01 66.04 107.11 189.51 272.08	6.7149 s $kJ/(kg \cdot K)$ 0.0006 0.1481 0.2907 0.5626 0.8182	0.0181655 v m³/kg 0.0009857 0.0009866 0.0009887 0.0009951 0.0010042	3536.3 30MP h kJ/kg 29.92 70.77 111.71 193.87 276.25	6.5035 a s kJ/(kg·K) 0.0005 0.1474 0.2895 0.5606 0.8156
580 600 p t °C 0 10 20 40 60 80	0.025978 0.026792 v m³/kg 0.0009880 0.0009888 0.0009908 0.0009972 0.0010063 0.0010177	3589.1 25MPa h kJ/kg 25.01 66.04 107.11 189.51 272.08 354.80	6.7149 s $kJ/(kg \cdot K)$ 0.0006 0.1481 0.2907 0.5626 0.8182 1.0593	0.0181655 v m³/kg 0.0009857 0.0009866 0.0009887 0.0009951 0.0010042 0.0010155	3536.3 30MP h kJ/kg 29.92 70.77 111.71 193.87 276.25 358.78	6.5035 a s kJ/(kg·K) 0.0005 0.1474 0.2895 0.5606 0.8156 1.0562
580 600 p t °C 0 10 20 40 60 80 100	0.025978 0.026792 V m³/kg 0.0009880 0.0009908 0.0009972 0.0010063 0.0010177 0.0010313	3589.1 25MPa h kJ/kg 25.01 66.04 107.11 189.51 272.08 354.80 437.85	s kJ/(kg·K) 0.0006 0.1481 0.2907 0.5626 0.8182 1.0593 1.2880	0.0181655 v m³/kg 0.0009857 0.0009866 0.0009951 0.0010042 0.0010155 0.0010290	3536.3 30MP h kJ/kg 29.92 70.77 111.71 193.87 276.25 358.78 441.64	6.5035 a s kJ/(kg·K) 0.0005 0.1474 0.2895 0.5606 0.8156 1.0562 1.2844
580 600 p t °C 0 10 20 40 60 80 100 120	0.025978 0.026792 v m³/kg 0.0009880 0.0009988 0.0009972 0.0010063 0.0010177 0.0010313 0.0010470	3589.1 25MPa h kJ/kg 25.01 66.04 107.11 189.51 272.08 354.80 437.85 521.36	6.7149 s $kJ/(kg \cdot K)$ 0.0006 0.1481 0.2907 0.5626 0.8182 1.0593 1.2880 1.5061	0.0181655 v m³/kg 0.0009857 0.0009866 0.0009887 0.0010042 0.0010155 0.0010290 0.0010445	3536.3 30MP h kJ/kg 29.92 70.77 111.71 193.87 276.25 358.78 441.64 524.95	6.5035 a s kJ/(kg·K) 0.0005 0.1474 0.2895 0.5606 0.8156 1.0562 1.2844 1.5019
580 600 p t °C 0 10 20 40 60 80 100 120 140	0.025978 0.026792 v m³/kg 0.0009880 0.0009988 0.0009972 0.0010063 0.0010177 0.0010313 0.0010470 0.0010650	3589.1 25MPa h kJ/kg 25.01 66.04 107.11 189.51 272.08 354.80 437.85 521.36 605.46	6.7149 s $kJ/(kg \cdot K)$ 0.0006 0.1481 0.2907 0.5626 0.8182 1.0593 1.2880 1.5061 1.7147	0.0181655 v m³/kg 0.0009857 0.0009866 0.0009887 0.0010042 0.0010155 0.0010290 0.0010445 0.0010622	3536.3 30MP h kJ/kg 29.92 70.77 111.71 193.87 276.25 358.78 441.64 524.95 608.82	6.5035 a s kJ/(kg·K) 0.0005 0.1474 0.2895 0.5606 0.8156 1.0562 1.2844 1.5019 1.7100
580 600 p t °C 0 10 20 40 60 80 100 120 140 160	0.025978 0.026792 V m³/kg 0.0009880 0.0009888 0.0009972 0.0010063 0.0010177 0.0010313 0.0010470 0.0010650 0.0010854	3589.1 25MPa h kJ/kg 25.01 66.04 107.11 189.51 272.08 354.80 437.85 521.36 605.46 690.27	$\begin{array}{c} s \\ kJ/(kg \cdot K) \\ \hline 0.0006 \\ 0.1481 \\ 0.2907 \\ 0.5626 \\ 0.8182 \\ 1.0593 \\ 1.2880 \\ 1.5061 \\ 1.7147 \\ 1.9152 \\ \end{array}$	0.0181655 v m³/kg 0.0009857 0.0009866 0.0009951 0.0010042 0.0010155 0.0010290 0.0010445 0.0010622 0.0010822	3536.3 30MP h kJ/kg 29.92 70.77 111.71 193.87 276.25 358.78 441.64 524.95 608.82 693.36	6.5035 a s kJ/(kg·K) 0.0005 0.1474 0.2895 0.5606 0.8156 1.0562 1.2844 1.5019 1.7100 1.9098
580 600 p t °C 0 10 20 40 60 100 120 140 160 180	0.025978 0.026792 V m³/kg 0.0009880 0.0009988 0.0009972 0.0010063 0.0010177 0.0010313 0.0010470 0.0010650 0.0010854 0.0011084	3589.1 25MPa h kJ/kg 25.01 66.04 107.11 189.51 272.08 354.80 437.85 521.36 605.46 690.27 775.94	s kJ/(kg·K) 0.0006 0.1481 0.2907 0.5626 0.8182 1.0593 1.2880 1.5061 1.7147 1.9152 2.1085	0.0181655 v m³/kg 0.0009857 0.0009866 0.0009887 0.0010042 0.0010155 0.0010290 0.0010445 0.0010622 0.0010822 0.0011048	3536.3 30MP h kJ/kg 29.92 70.77 111.71 193.87 276.25 358.78 441.64 524.95 608.82 693.36 778.72	6.5035 a s kJ/(kg·K) 0.0005 0.1474 0.2895 0.5606 0.8156 1.0562 1.2844 1.5019 1.7100 1.9098 2.1024
580 600 p t ℃ 0 10 20 40 60 80 100 120 140 160 180 200	0.025978 0.026792 v m³/kg 0.0009880 0.0009888 0.0009972 0.0010063 0.0010177 0.0010313 0.0010470 0.0010650 0.0010854 0.0011084 0.0011345	3589.1 25MPa h kJ/kg 25.01 66.04 107.11 189.51 272.08 354.80 437.85 521.36 605.46 690.27 775.94 862.71	$\begin{array}{c} s \\ kJ/(kg \cdot K) \\ \hline 0.0006 \\ 0.1481 \\ 0.2907 \\ 0.5626 \\ 0.8182 \\ 1.0593 \\ 1.2880 \\ 1.5061 \\ 1.7147 \\ 1.9152 \\ 2.1085 \\ 2.2959 \\ \end{array}$	0.0181655 v m³/kg 0.0009857 0.0009866 0.0009887 0.0010042 0.0010155 0.0010290 0.0010445 0.0010622 0.0010822 0.0011048 0.0011303	3536.3 30MP h kJ/kg 29.92 70.77 111.71 193.87 276.25 358.78 441.64 524.95 608.82 693.36 778.72 865.12	6.5035 a s kJ/(kg·K) 0.0005 0.1474 0.2895 0.5606 0.8156 1.0562 1.2844 1.5019 1.7100 1.9098 2.1024 2.2890
580 600 p t °C 0 10 20 40 60 100 120 140 160 180	0.025978 0.026792 V m³/kg 0.0009880 0.0009988 0.0009972 0.0010063 0.0010177 0.0010313 0.0010470 0.0010650 0.0010854 0.0011084	3589.1 25MPa h kJ/kg 25.01 66.04 107.11 189.51 272.08 354.80 437.85 521.36 605.46 690.27 775.94	s kJ/(kg·K) 0.0006 0.1481 0.2907 0.5626 0.8182 1.0593 1.2880 1.5061 1.7147 1.9152 2.1085	0.0181655 v m³/kg 0.0009857 0.0009866 0.0009887 0.0010042 0.0010155 0.0010290 0.0010445 0.0010622 0.0010822 0.0011048	3536.3 30MP h kJ/kg 29.92 70.77 111.71 193.87 276.25 358.78 441.64 524.95 608.82 693.36 778.72	6.5035 a s kJ/(kg·K) 0.0005 0.1474 0.2895 0.5606 0.8156 1.0562 1.2844 1.5019 1.7100 1.9098 2.1024

260	0.0012387	1133.6	2.8346	0.0012311	1134.1	2.8239
280	0.0012866	1229.6	3.0113	0.0012766	1229.0	2.9985
300	0.0013453	1330.3	3.1901	0.0013317	1327.9	3.1742
350	0.0015981	1623.1	3.6788	0.0015522	1608.0	3.6420
400	0.0060014	2578.0	5.1386	0.0027929	2150.6	4.4721
450	0.0091666	2950.5	5.6754	0.0067363	2822.1	5.4433
500	0.0111229	3164.1	5.9614	0.0086761	3083.3	5.7934
520	0.0117897	3236.1	6.0534	0.0093033	3165.4	5.8982
540	0.0124156	3303.8	6.1377	0.0098825	3240.8	5.9921
550	0.0127161	3336.4	6.1775	0.0101580	3276.6	6.0359
560	0.0130095	3368.2	6.2160	0.0104254	3311.4	6.0780
580	0.0135778	3430.2	6.2895	0.0109397	3378.5	6.1576
600	0.0141249	3490.2	6.3591	0.0114310	3442.9	6.232L

本表引自严家录、余晓福编著《水和水蒸汽热力性质图表》,高等教育出版社,1995