R134a 冷媒飽和性質表 (Staurated Properities Table of R134a Refrigerant)

冷媒(refrigerant)：		R134a		臨界溫度(critical temperature)： 374.2 K		臨界壓力(critical Pressure)： 4059.3 kPa		莫爾質量(molar mass)： 102 kg/kmol											
溫度	壓力	比容		比焓		比熵		定壓比熱		定容比熱		黏度		熱傳導率		聲速		表面張力	
(temp.)	(press.)	(specific volume)		(specific enthalpy)		(spec. entropy)		(isobaric sp. heat)		(isochoric sp. heat)		(viscosity)		(thermal conductivity)		(speed of sound)		(surface tension)	
°C	kPa	m3/kg		kJ/kg		kJ/(kgK)		kJ/(kgK)		kJ/(kgK)		mPa-s		W/(mK)		m/s		m-N/m	
相(phase)		液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)
-62	13.9	0.0007	1.2206	120.9	360.0	0.67	1.81	1.22	0.69	0.81	0.60	686.6	8.44	0.1218	0.0064	912.7	138.9	21.1	21.1
-60	15.9	0.0007	1.0790	123.4	361.3	0.68	1.80	1.22	0.69	0.81	0.60	660.5	8.52	0.1207	0.0066	903.0	139.4	20.8	20.8
-58	18.1	0.0007	0.9565	125.8	362.6	0.70	1.80	1.23	0.70	0.81	0.61	636.0	8.60	0.1197	0.0067	893.3	139.9	20.5	20.5
-56	20.5	0.0007	0.8502	128.3	363.8	0.71	1.79	1.23	0.70	0.82	0.61	612.9	8.67	0.1186	0.0069	883.6	140.4	20.1	20.1
-54	23.2	0.0007	0.7577	130.7	365.1	0.72	1.79	1.23	0.71	0.82	0.62	591.1	8.75	0.1176	0.0070	873.9	140.8	19.8	19.8
-52	26.2	0.0007	0.6769	133.2	366.4	0.73	1.78	1.23	0.71	0.82	0.62	570.4	8.82	0.1166	0.0072	864.3	141.3	19.5	19.5
-50	29.5	0.0007	0.6062	135.7	367.7	0.74	1.78	1.24	0.72	0.82	0.63	550.9	8.90	0.1156	0.0074	854.7	141.7	19.2	19.2
-48	33.1	0.0007	0.5441	138.2	368.9	0.75	1.78	1.24	0.73	0.82	0.63	532.4	8.97	0.1146	0.0075	845.2	142.1	18.9	18.9
-46	37.0	0.0007	0.4896	140.6	370.2	0.76	1.77	1.24	0.73	0.83	0.64	514.8	9.05	0.1136	0.0077	835.6	142.5	18.5	18.5
-44	41.3	0.0007	0.4414	143.1	371.5	0.77	1.77	1.25	0.74	0.83	0.64	498.1	9.12	0.1126	0.0078	826.1	142.9	18.2	18.2
-42	46.1	0.0007	0.3988	145.6	372.7	0.78	1.77	1.25	0.74	0.83	0.65	482.2	9.20	0.1116	0.0080	816.7	143.3	17.9	17.9
-40	51.2	0.0007	0.3611	148.1	374.0	0.80	1.76	1.25	0.75	0.83	0.65	467.0	9.27	0.1106	0.0082	807.2	143.6	17.6	17.6
-38	56.8	0.0007	0.3276	150.7	375.3	0.81	1.76	1.26	0.76	0.83	0.66	452.6	9.34	0.1096	0.0083	797.8	144.0	17.3	17.3
-36	62.9	0.0007	0.2977	153.2	376.5	0.82	1.76	1.26	0.76	0.84	0.66	438.8	9.42	0.1086	0.0085	788.4	144.3	17.0	17.0
-34	69.5	0.0007	0.2711	155.7	377.8	0.83	1.76	1.27	0.77	0.84	0.67	425.6	9.49	0.1077	0.0087	779.0	144.6	16.7	16.7
-32	76.7	0.0007	0.2473	158.2	379.1	0.84	1.75	1.27	0.77	0.84	0.67	413.0	9.56	0.1067	0.0088	769.6	144.9	16.3	16.3
-30	84.4	0.0007	0.2259	160.8	380.3	0.85	1.75	1.27	0.78	0.84	0.68	401.0	9.64	0.1058	0.0090	760.3	145.2	16.0	16.0
-28	92.7	0.0007	0.2068	163.3	381.6	0.86	1.75	1.28	0.79	0.85	0.68	389.4	9.71	0.1048	0.0092	750.9	145.4	15.7	15.7
-26	101.7	0.0007	0.1896	165.9	382.8	0.87	1.75	1.28	0.79	0.85	0.69	378.3	9.78	0.1039	0.0093	741.6	145.7	15.4	15.4
-24	111.3	0.0007	0.1741	168.5	384.1	0.88	1.75	1.28	0.80	0.85	0.69	367.7	9.85	0.1029	0.0095	732.3	145.9	15.1	15.1
-22	121.6	0.0007	0.1601	171.1	385.3	0.89	1.74	1.29	0.81	0.85	0.70	357.4	9.93	0.1020	0.0097	723.1	146.1	14.8	14.8
-20	132.7	0.0007	0.1474	173.6	386.6	0.90	1.74	1.29	0.82	0.86	0.70	347.6	10.00	0.1011	0.0098	713.8	146.3	14.5	14.5
-18	144.6	0.0007	0.1359	176.2	387.8	0.91	1.74	1.30	0.82	0.86	0.71	338.1	10.07	0.1001	0.0100	704.5	146.4	14.2	14.2
-16	157.3	0.0007	0.1255	178.8	389.0	0.92	1.74	1.30	0.83	0.86	0.72	329.0	10.14	0.0992	0.0102	695.3	146.6	13.9	13.9
-14	170.8	0.0007	0.1161	181.4	390.2	0.93	1.74	1.31	0.84	0.86	0.72	320.2	10.22	0.0983	0.0103	686.1	146.7	13.6	13.6
-12	185.2	0.0007	0.1074	184.1	391.5	0.94	1.73	1.31	0.85	0.86	0.73	311.7	10.29	0.0974	0.0105	676.8	146.8	13.3	13.3
-10	200.6	0.0008	0.0996	186.7	392.7	0.95	1.73	1.32	0.85	0.87	0.73	303.5	10.36	0.0965	0.0107	667.6	146.9	13.0	13.0
-8	216.9	0.0008	0.0924	189.3	393.9	0.96	1.73	1.32	0.86	0.87	0.74	295.6	10.43	0.0956	0.0108	658.4	146.9	12.7	12.7
-6	234.3	0.0008	0.0859	192.0	395.1	0.97	1.73	1.33	0.87	0.87	0.74	288.0	10.51	0.0947	0.0110	649.2	147.0	12.4	12.4
-4	252.7	0.0008	0.0799	194.6	396.3	0.98	1.73	1.33	0.88	0.87	0.75	280.6	10.58	0.0938	0.0112	640.0	147.0	12.1	12.1
-2	272.2	0.0008	0.0744	197.3	397.4	0.99	1.73	1.34	0.89	0.88	0.76	273.5	10.65	0.0929	0.0113	630.8	147.0	11.8	11.8
0	292.8	0.0008	0.0693	200.0	398.6	1.00	1.73	1.34	0.90	0.88	0.76	266.5	10.73	0.0920	0.0115	621.6	146.9	11.6	11.6
2	314.6	0.0008	0.0647	202.7	399.8	1.01	1.73	1.35	0.91	0.88	0.77	259.8	10.80	0.0911	0.0117	612.5	146.9	11.3	11.3
4	337.7	0.0008	0.0604	205.4	400.9	1.02	1.72	1.35	0.92	0.88	0.77	253.3	10.87	0.0902	0.0119	603.3	146.8	11.0	11.0
6	362.0	0.0008	0.0564	208.1	402.1	1.03	1.72	1.36	0.93	0.89	0.78	247.0	10.95	0.0894	0.0120	594.1	146.7	10.7	10.7
8	387.6	0.0008	0.0528	210.8	403.2	1.04	1.72	1.36	0.94	0.89	0.78	240.8	11.02	0.0885	0.0122	584.9	146.5	10.4	10.4
10	414.6	0.0008	0.0494	213.6	404.3	1.05	1.72	1.37	0.95	0.89	0.79	234.9	11.10	0.0876	0.0124	575.7	146.4	10.1	10.1
12	443.0	0.0008	0.0463	216.3	405.4	1.06	1.72	1.38	0.96	0.89	0.80	229.1	11.18	0.0867	0.0126	566.5	146.2	9.9	9.9
14	472.9	0.0008	0.0435	219.1	406.5	1.07	1.72	1.38	0.97	0.90	0.80	223.4	11.25	0.0859	0.0128	557.3	146.0	9.6	9.6
16	504.3	0.0008	0.0408	221.9	407.6	1.08	1.72	1.39	0.98	0.90	0.81	217.9	11.33	0.0850	0.0130	548.1	145.7	9.3	9.3

Refer to the NIST Database 23 - RefProp 7.0, created by Cheng-Te Lin, Kuenling refrigerating machinery Co., LTD.

R134a 冷媒飽和性質表 (Staurated Properities Table of R134a Refrigerant)

冷媒(refrigerant)：		R134a		臨界溫度(critical temperature)： 374.2 K		臨界壓力(critical Pressure)： 4059.3 kPa		莫爾質量(molar mass)： 102 kg/kmol											
溫度	壓力	比容		比焓		比熵		定壓比熱		定容比熱		黏度		熱傳導率		聲速		表面張力	
(temp.)	(press.)	(specific volume)		(specific enthalpy)		(spec. entropy)		(isobaric sp. heat)		(isochoric sp. heat)		(viscosity)		(thermal conductivity)		(speed of sound)		(surface tension)	
°C	kPa	m3/kg		kJ/kg		kJ/(kgK)		kJ/(kgK)		kJ/(kgK)		mPa-s		W/(mK)		m/s		m-N/m	
相(phase)		液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)
18	537.2	0.0008	0.0383	224.7	408.7	1.09	1.72	1.40	0.99	0.90	0.81	212.6	11.41	0.0841	0.0131	538.8	145.5	9.0	9.0
20	571.7	0.0008	0.0360	227.5	409.7	1.10	1.72	1.40	1.00	0.91	0.82	207.4	11.49	0.0833	0.0133	529.6	145.1	8.8	8.8
22	607.9	0.0008	0.0339	230.3	410.8	1.11	1.72	1.41	1.01	0.91	0.83	202.3	11.57	0.0824	0.0135	520.4	144.8	8.5	8.5
24	645.8	0.0008	0.0319	233.1	411.8	1.12	1.72	1.42	1.03	0.91	0.83	197.3	11.65	0.0816	0.0137	511.1	144.5	8.2	8.2
26	685.4	0.0008	0.0300	236.0	412.8	1.12	1.72	1.43	1.04	0.91	0.84	192.5	11.73	0.0807	0.0139	501.8	144.1	7.9	7.9
28	726.9	0.0008	0.0283	238.8	413.8	1.13	1.72	1.44	1.05	0.92	0.85	187.7	11.82	0.0798	0.0141	492.5	143.6	7.7	7.7
30	770.2	0.0008	0.0266	241.7	414.8	1.14	1.71	1.45	1.07	0.92	0.85	183.1	11.91	0.0790	0.0143	483.2	143.2	7.4	7.4
32	815.4	0.0008	0.0251	244.6	415.8	1.15	1.71	1.46	1.08	0.92	0.86	178.6	12.00	0.0781	0.0145	473.9	142.7	7.2	7.2
34	862.6	0.0009	0.0237	247.5	416.7	1.16	1.71	1.47	1.10	0.92	0.87	174.2	12.09	0.0773	0.0148	464.6	142.1	6.9	6.9
36	911.8	0.0009	0.0224	250.5	417.6	1.17	1.71	1.48	1.11	0.93	0.87	169.9	12.18	0.0764	0.0150	455.2	141.6	6.6	6.6
38	963.2	0.0009	0.0211	253.4	418.5	1.18	1.71	1.49	1.13	0.93	0.88	165.6	12.27	0.0756	0.0152	445.8	141.0	6.4	6.4
40	1016.6	0.0009	0.0200	256.4	419.4	1.19	1.71	1.50	1.14	0.93	0.89	161.4	12.37	0.0747	0.0154	436.4	140.3	6.1	6.1
42	1072.2	0.0009	0.0189	259.4	420.3	1.20	1.71	1.51	1.16	0.94	0.89	157.4	12.47	0.0739	0.0157	427.0	139.7	5.9	5.9
44	1130.1	0.0009	0.0178	262.4	421.1	1.21	1.71	1.52	1.18	0.94	0.90	153.4	12.58	0.0730	0.0159	417.5	138.9	5.6	5.6
46	1190.3	0.0009	0.0169	265.5	421.9	1.22	1.71	1.54	1.20	0.94	0.91	149.4	12.69	0.0721	0.0162	408.0	138.2	5.4	5.4
48	1252.9	0.0009	0.0160	268.5	422.7	1.23	1.71	1.55	1.22	0.95	0.91	145.6	12.80	0.0713	0.0165	398.5	137.4	5.1	5.1
50	1317.9	0.0009	0.0151	271.6	423.4	1.24	1.71	1.57	1.25	0.95	0.92	141.8	12.92	0.0704	0.0167	389.0	136.6	4.9	4.9
52	1385.4	0.0009	0.0143	274.7	424.1	1.25	1.71	1.58	1.27	0.95	0.93	138.0	13.04	0.0696	0.0170	379.4	135.7	4.7	4.7
54	1455.5	0.0009	0.0135	277.9	424.8	1.26	1.71	1.60	1.30	0.96	0.94	134.4	13.17	0.0687	0.0173	369.7	134.7	4.4	4.4
56	1528.2	0.0009	0.0128	281.1	425.5	1.27	1.70	1.62	1.32	0.96	0.94	130.7	13.30	0.0678	0.0176	360.0	133.8	4.2	4.2
58	1603.6	0.0009	0.0121	284.3	426.1	1.28	1.70	1.64	1.35	0.96	0.95	127.1	13.44	0.0670	0.0180	350.3	132.7	3.9	3.9
60	1681.8	0.0009	0.0114	287.5	426.6	1.28	1.70	1.66	1.39	0.97	0.96	123.6	13.59	0.0661	0.0183	340.5	131.7	3.7	3.7
62	1762.8	0.0010	0.0108	290.8	427.1	1.29	1.70	1.68	1.42	0.97	0.97	120.1	13.74	0.0652	0.0187	330.6	130.5	3.5	3.5
64	1846.7	0.0010	0.0102	294.1	427.6	1.30	1.70	1.71	1.46	0.97	0.97	116.7	13.91	0.0643	0.0191	320.7	129.4	3.3	3.3
66	1933.7	0.0010	0.0097	297.4	428.0	1.31	1.70	1.74	1.50	0.98	0.98	113.3	14.09	0.0635	0.0195	310.7	128.1	3.0	3.0
68	2023.7	0.0010	0.0092	300.8	428.4	1.32	1.70	1.77	1.55	0.98	0.99	109.9	14.27	0.0626	0.0200	300.5	126.8	2.8	2.8
70	2116.8	0.0010	0.0087	304.3	428.6	1.33	1.70	1.80	1.61	0.99	1.00	106.5	14.48	0.0617	0.0205	290.3	125.5	2.6	2.6
72	2213.2	0.0010	0.0082	307.8	428.9	1.34	1.69	1.84	1.67	0.99	1.01	103.2	14.69	0.0608	0.0210	279.9	124.0	2.4	2.4
74	2313.0	0.0010	0.0077	311.3	429.0	1.35	1.69	1.89	1.73	1.00	1.02	99.8	14.93	0.0599	0.0216	269.4	122.6	2.2	2.2
76	2416.1	0.0010	0.0073	314.9	429.0	1.36	1.69	1.94	1.81	1.00	1.03	96.5	15.18	0.0590	0.0222	258.7	121.0	2.0	2.0
78	2522.8	0.0011	0.0069	318.6	429.0	1.37	1.69	2.00	1.90	1.01	1.04	93.2	15.46	0.0581	0.0229	247.8	119.4	1.8	1.8
80	2633.2	0.0011	0.0064	322.4	428.8	1.38	1.68	2.06	2.01	1.01	1.05	89.8	15.77	0.0571	0.0237	236.6	117.7	1.6	1.6
82	2747.3	0.0011	0.0061	326.2	428.5	1.39	1.68	2.15	2.14	1.02	1.06	86.5	16.12	0.0562	0.0246	225.2	115.9	1.4	1.4
84	2865.3	0.0011	0.0057	330.2	428.1	1.40	1.68	2.25	2.30	1.03	1.07	83.1	16.50	0.0553	0.0256	213.4	114.1	1.2	1.2
86	2987.4	0.0011	0.0053	334.3	427.4	1.42	1.68	2.37	2.50	1.04	1.08	79.6	16.94	0.0544	0.0268	201.3	112.1	1.1	1.1
88	3113.6	0.0012	0.0050	338.5	426.6	1.43	1.67	2.54	2.77	1.04	1.09	76.1	17.44	0.0536	0.0282	188.8	110.1	0.9	0.9
90	3244.2	0.0012	0.0046	342.9	425.4	1.44	1.67	2.76	3.12	1.06	1.11	72.5	18.02	0.0528	0.0298	175.9	107.9	0.7	0.7
92	3379.3	0.0012	0.0043	347.6	423.9	1.45	1.66	3.07	3.63	1.07	1.12	68.6	18.72	0.0520	0.0318	162.4	105.6	0.6	0.6
94	3519.3	0.0013	0.0039	352.6	421.9	1.46	1.65	3.57	4.43	1.08	1.14	64.6	19.59	0.0516	0.0344	148.4	103.2	0.4	0.4
96	3664.5	0.0013	0.0036	358.1	419.2	1.48	1.64	4.46	5.85	1.10	1.16	60.1	20.73	0.0515	0.0381	133.7	100.6	0.3	0.3

Refer to the NIST Database 23 - RefProp 7.0, created by Cheng-Te Lin, Kuenling refrigerating machinery Co., LTD.

R22 冷媒飽和性質表 (Staurated Properities Table of R22 Refrigerant)

冷媒(refrigerant)：		R22		臨界溫度(critical temperature)： 369.3 K		臨界壓力(critical Pressure)： 4990 kPa		莫爾質量(molar mass)： 86.5 kg/kmol											
溫度 (temp.)	壓力 (press.)	比容 (specific volume)		比焓 (specific enthalpy)		比熵 (spec. entropy)		定壓比熱 (isobaric sp. heat)		定容比熱 (isochoric sp. heat)		黏度 (viscosity)		熱傳導率 (thermal conductivity)		聲速 (speed of sound)		表面張力 (surface tension)	
°C	kPa	m3/kg		kJ/kg		kJ/(kgK)		kJ/(kgK)		kJ/(kgK)		mPa-s		W/(mK)		m/s		m-N/m	
相(phase)		液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)
-62	33.4	0.0007	0.5979	131.1	377.6	0.72	1.88	1.07	0.56	0.66	0.45	459.0	8.83	0.1236	0.0060	949.2	155.5	21.6	21.6
-60	37.5	0.0007	0.5368	133.3	378.6	0.73	1.88	1.07	0.56	0.66	0.46	446.0	8.91	0.1226	0.0061	939.9	156.0	21.2	21.2
-58	42.0	0.0007	0.4831	135.4	379.6	0.74	1.87	1.07	0.57	0.65	0.46	433.6	9.00	0.1216	0.0062	930.6	156.5	20.9	20.9
-56	46.9	0.0007	0.4357	137.6	380.5	0.75	1.86	1.07	0.57	0.65	0.46	421.7	9.08	0.1206	0.0063	921.3	156.9	20.6	20.6
-54	52.3	0.0007	0.3939	139.7	381.5	0.76	1.86	1.08	0.58	0.65	0.47	410.3	9.16	0.1197	0.0064	912.0	157.4	20.2	20.2
-52	58.2	0.0007	0.3568	141.9	382.5	0.77	1.85	1.08	0.58	0.65	0.47	399.3	9.24	0.1187	0.0065	902.7	157.9	19.9	19.9
-50	64.5	0.0007	0.3238	144.0	383.4	0.78	1.85	1.08	0.58	0.65	0.47	388.8	9.32	0.1177	0.0066	893.4	158.3	19.6	19.6
-48	71.4	0.0007	0.2945	146.2	384.4	0.78	1.84	1.08	0.59	0.65	0.48	378.7	9.40	0.1168	0.0067	884.1	158.7	19.2	19.2
-46	78.9	0.0007	0.2684	148.4	385.3	0.79	1.84	1.08	0.59	0.65	0.48	369.0	9.49	0.1158	0.0068	874.8	159.1	18.9	18.9
-44	87.0	0.0007	0.2450	150.5	386.3	0.80	1.83	1.09	0.60	0.65	0.48	359.6	9.57	0.1149	0.0069	865.5	159.5	18.6	18.6
-42	95.8	0.0007	0.2240	152.7	387.2	0.81	1.83	1.09	0.60	0.65	0.49	350.6	9.65	0.1139	0.0070	856.2	159.9	18.3	18.3
-40	105.2	0.0007	0.2052	154.9	388.1	0.82	1.82	1.09	0.61	0.65	0.49	342.0	9.73	0.1130	0.0071	846.9	160.3	17.9	17.9
-38	115.4	0.0007	0.1883	157.1	389.1	0.83	1.82	1.09	0.61	0.66	0.50	333.6	9.81	0.1120	0.0072	837.6	160.6	17.6	17.6
-36	126.3	0.0007	0.1730	159.3	390.0	0.84	1.81	1.10	0.62	0.66	0.50	325.5	9.89	0.1111	0.0073	828.2	160.9	17.3	17.3
-34	138.0	0.0007	0.1593	161.5	390.9	0.85	1.81	1.10	0.62	0.66	0.50	317.7	9.97	0.1102	0.0074	818.9	161.2	17.0	17.0
-32	150.5	0.0007	0.1468	163.7	391.8	0.86	1.81	1.10	0.63	0.66	0.51	310.2	10.05	0.1093	0.0075	809.6	161.5	16.7	16.7
-30	163.9	0.0007	0.1355	165.9	392.7	0.87	1.80	1.10	0.63	0.66	0.51	302.9	10.13	0.1084	0.0076	800.3	161.8	16.3	16.3
-28	178.2	0.0007	0.1253	168.1	393.6	0.88	1.80	1.11	0.64	0.66	0.51	295.8	10.21	0.1074	0.0077	791.0	162.0	16.0	16.0
-26	193.4	0.0007	0.1160	170.3	394.5	0.89	1.79	1.11	0.65	0.66	0.52	289.0	10.30	0.1065	0.0078	781.6	162.3	15.7	15.7
-24	209.7	0.0007	0.1075	172.6	395.3	0.90	1.79	1.12	0.65	0.66	0.52	282.4	10.38	0.1056	0.0079	772.3	162.5	15.4	15.4
-22	227.0	0.0007	0.0997	174.8	396.2	0.90	1.79	1.12	0.66	0.66	0.53	275.9	10.46	0.1047	0.0081	763.0	162.7	15.1	15.1
-20	245.3	0.0007	0.0927	177.0	397.1	0.91	1.78	1.12	0.67	0.66	0.53	269.7	10.54	0.1038	0.0082	753.6	162.8	14.8	14.8
-18	264.8	0.0007	0.0862	179.3	397.9	0.92	1.78	1.13	0.67	0.66	0.53	263.7	10.62	0.1029	0.0083	744.3	163.0	14.4	14.4
-16	285.4	0.0007	0.0803	181.6	398.7	0.93	1.78	1.13	0.68	0.66	0.54	257.8	10.70	0.1020	0.0084	734.9	163.1	14.1	14.1
-14	307.3	0.0008	0.0749	183.8	399.6	0.94	1.77	1.13	0.69	0.66	0.54	252.0	10.78	0.1011	0.0085	725.6	163.2	13.8	13.8
-12	330.4	0.0008	0.0699	186.1	400.4	0.95	1.77	1.14	0.69	0.66	0.55	246.5	10.86	0.1002	0.0086	716.2	163.3	13.5	13.5
-10	354.8	0.0008	0.0653	188.4	401.2	0.96	1.77	1.14	0.70	0.67	0.55	241.1	10.95	0.0992	0.0088	706.8	163.3	13.2	13.2
-8	380.5	0.0008	0.0610	190.7	402.0	0.97	1.76	1.15	0.71	0.67	0.55	235.8	11.03	0.0983	0.0089	697.5	163.4	12.9	12.9
-6	407.7	0.0008	0.0571	193.0	402.8	0.97	1.76	1.15	0.71	0.67	0.56	230.6	11.11	0.0974	0.0090	688.1	163.4	12.6	12.6
-4	436.3	0.0008	0.0535	195.3	403.5	0.98	1.76	1.16	0.72	0.67	0.56	225.6	11.19	0.0965	0.0091	678.7	163.4	12.3	12.3
-2	466.4	0.0008	0.0502	197.7	404.3	0.99	1.75	1.16	0.73	0.67	0.57	220.7	11.28	0.0956	0.0093	669.3	163.4	12.0	12.0
0	498.0	0.0008	0.0471	200.0	405.0	1.00	1.75	1.17	0.74	0.67	0.57	216.0	11.36	0.0947	0.0094	659.9	163.3	11.7	11.7
2	531.2	0.0008	0.0442	202.4	405.8	1.01	1.75	1.17	0.75	0.67	0.58	211.3	11.45	0.0938	0.0095	650.5	163.2	11.4	11.4
4	566.1	0.0008	0.0416	204.7	406.5	1.02	1.74	1.18	0.76	0.67	0.58	206.8	11.53	0.0929	0.0097	641.0	163.1	11.1	11.1
6	602.6	0.0008	0.0391	207.1	407.2	1.03	1.74	1.19	0.77	0.68	0.59	202.3	11.62	0.0920	0.0098	631.6	163.0	10.8	10.8
8	640.9	0.0008	0.0368	209.5	407.9	1.03	1.74	1.19	0.78	0.68	0.59	198.0	11.71	0.0911	0.0100	622.1	162.8	10.5	10.5
10	680.9	0.0008	0.0347	211.9	408.6	1.04	1.74	1.20	0.79	0.68	0.60	193.7	11.80	0.0902	0.0101	612.7	162.6	10.2	10.2
12	722.9	0.0008	0.0327	214.3	409.2	1.05	1.73	1.21	0.80	0.68	0.60	189.5	11.89	0.0893	0.0103	603.2	162.4	9.9	9.9
14	766.7	0.0008	0.0309	216.7	409.9	1.06	1.73	1.21	0.81	0.68	0.60	185.5	11.98	0.0884	0.0104	593.7	162.2	9.6	9.6
16	812.4	0.0008	0.0291	219.1	410.5	1.07	1.73	1.22	0.82	0.68	0.61	181.5	12.07	0.0875	0.0106	584.2	161.9	9.4	9.4

Refer to the NIST Database 23 - RefProp 7.0, created by Cheng-Te Lin, Kuenling refrigerating machinery Co., LTD.

R22 冷媒飽和性質表 (Staurated Properities Table of R22 Refrigerant)

冷媒(refrigerant)：		R22		臨界溫度(critical temperature)： 369.3 K		臨界壓力(critical Pressure)： 4990 kPa		莫爾質量(molar mass)： 86.5 kg/kmol											
溫度	壓力	比容		比焓		比熵		定壓比熱		定容比熱		黏度		熱傳導率		聲速		表面張力	
(temp.)	(press.)	(specific volume)		(specific enthalpy)		(spec. entropy)		(isobaric sp. heat)		(isochoric sp. heat)		(viscosity)		(thermal conductivity)		(speed of sound)		(surface tension)	
°C	kPa	m3/kg		kJ/kg		kJ/(kgK)		kJ/(kgK)		kJ/(kgK)		mPa-s		W/(mK)		m/s		m-N/m	
相(phase)		液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)
18	860.2	0.0008	0.0275	221.6	411.1	1.08	1.73	1.23	0.83	0.68	0.61	177.5	12.17	0.0866	0.0107	574.6	161.6	9.1	9.1
20	910.0	0.0008	0.0260	224.1	411.7	1.08	1.72	1.24	0.84	0.69	0.62	173.7	12.26	0.0857	0.0109	565.1	161.3	8.8	8.8
22	961.9	0.0008	0.0246	226.5	412.2	1.09	1.72	1.24	0.85	0.69	0.62	169.9	12.36	0.0848	0.0111	555.5	161.0	8.5	8.5
24	1016.0	0.0008	0.0232	229.0	412.8	1.10	1.72	1.25	0.87	0.69	0.63	166.2	12.46	0.0839	0.0112	545.9	160.6	8.2	8.2
26	1072.4	0.0008	0.0220	231.5	413.3	1.11	1.72	1.26	0.88	0.69	0.63	162.6	12.56	0.0830	0.0114	536.2	160.2	7.9	7.9
28	1130.9	0.0008	0.0208	234.1	413.8	1.12	1.71	1.27	0.89	0.69	0.64	159.0	12.67	0.0821	0.0116	526.5	159.7	7.7	7.7
30	1191.9	0.0009	0.0197	236.6	414.3	1.13	1.71	1.28	0.91	0.70	0.65	155.5	12.77	0.0812	0.0118	516.8	159.2	7.4	7.4
32	1255.2	0.0009	0.0187	239.2	414.7	1.13	1.71	1.29	0.92	0.70	0.65	152.0	12.85	0.0803	0.0120	507.1	158.7	7.1	7.1
34	1321.0	0.0009	0.0177	241.8	415.1	1.14	1.71	1.30	0.94	0.70	0.66	148.6	12.96	0.0794	0.0122	497.3	158.2	6.8	6.8
36	1389.2	0.0009	0.0168	244.4	415.5	1.15	1.70	1.31	0.96	0.70	0.66	145.2	13.07	0.0785	0.0124	487.4	157.6	6.6	6.6
38	1460.1	0.0009	0.0159	247.0	415.9	1.16	1.70	1.33	0.98	0.70	0.67	141.9	13.18	0.0775	0.0126	477.6	157.0	6.3	6.3
40	1533.6	0.0009	0.0151	249.6	416.2	1.17	1.70	1.34	0.99	0.71	0.67	138.7	13.30	0.0766	0.0128	467.6	156.4	6.0	6.0
42	1609.8	0.0009	0.0143	252.3	416.6	1.17	1.70	1.35	1.02	0.71	0.68	135.5	13.42	0.0757	0.0131	457.6	155.7	5.8	5.8
44	1688.7	0.0009	0.0136	255.0	416.8	1.18	1.69	1.37	1.04	0.71	0.68	132.3	13.54	0.0747	0.0133	447.6	155.0	5.5	5.5
46	1770.4	0.0009	0.0129	257.7	417.1	1.19	1.69	1.38	1.06	0.71	0.69	129.1	13.67	0.0738	0.0136	437.4	154.2	5.3	5.3
48	1855.1	0.0009	0.0123	260.5	417.3	1.20	1.69	1.40	1.09	0.72	0.70	126.0	13.80	0.0729	0.0139	427.2	153.4	5.0	5.0
50	1942.7	0.0009	0.0116	263.2	417.4	1.21	1.69	1.42	1.11	0.72	0.70	123.0	13.94	0.0719	0.0142	417.0	152.6	4.7	4.7
52	2033.3	0.0009	0.0110	266.0	417.6	1.22	1.68	1.44	1.14	0.72	0.71	119.9	14.09	0.0709	0.0145	406.6	151.7	4.5	4.5
54	2127.0	0.0009	0.0105	268.9	417.6	1.22	1.68	1.46	1.17	0.72	0.71	116.9	14.25	0.0700	0.0148	396.2	150.8	4.2	4.2
56	2223.9	0.0010	0.0100	271.8	417.7	1.23	1.68	1.48	1.21	0.73	0.72	113.9	14.41	0.0690	0.0152	385.7	149.8	4.0	4.0
58	2324.0	0.0010	0.0094	274.7	417.6	1.24	1.67	1.51	1.25	0.73	0.73	110.9	14.58	0.0680	0.0155	375.0	148.8	3.8	3.8
60	2427.5	0.0010	0.0090	277.6	417.5	1.25	1.67	1.54	1.29	0.73	0.73	108.0	14.76	0.0670	0.0159	364.3	147.7	3.5	3.5
62	2534.3	0.0010	0.0085	280.6	417.4	1.26	1.67	1.57	1.33	0.73	0.74	105.1	14.96	0.0660	0.0164	353.5	146.6	3.3	3.3
64	2644.7	0.0010	0.0081	283.6	417.2	1.27	1.66	1.61	1.38	0.74	0.75	102.1	15.16	0.0650	0.0168	342.5	145.5	3.0	3.0
66	2758.6	0.0010	0.0076	286.7	416.9	1.28	1.66	1.65	1.44	0.74	0.75	99.2	15.38	0.0640	0.0173	331.4	144.2	2.8	2.8
68	2876.1	0.0010	0.0072	289.9	416.5	1.29	1.66	1.69	1.51	0.74	0.76	96.3	15.62	0.0630	0.0179	320.2	143.0	2.6	2.6
70	2997.4	0.0010	0.0068	293.1	416.1	1.29	1.65	1.74	1.58	0.75	0.77	93.3	15.88	0.0619	0.0185	308.8	141.7	2.4	2.4
72	3122.5	0.0010	0.0065	296.4	415.5	1.30	1.65	1.80	1.67	0.75	0.78	90.4	16.16	0.0609	0.0192	297.3	140.3	2.1	2.1
74	3251.6	0.0011	0.0061	299.7	414.9	1.31	1.64	1.87	1.77	0.75	0.79	87.4	16.46	0.0598	0.0199	285.6	138.9	1.9	1.9
76	3384.8	0.0011	0.0058	303.2	414.1	1.32	1.64	1.96	1.90	0.76	0.80	84.4	16.80	0.0588	0.0208	273.6	137.4	1.7	1.7
78	3522.2	0.0011	0.0054	306.8	413.1	1.33	1.64	2.06	2.05	0.76	0.81	81.4	17.17	0.0577	0.0217	261.3	135.8	1.5	1.5
80	3663.8	0.0011	0.0051	310.4	412.0	1.34	1.63	2.18	2.23	0.77	0.82	78.3	17.59	0.0566	0.0228	248.8	134.2	1.3	1.3
82	3809.9	0.0011	0.0048	314.3	410.7	1.35	1.62	2.34	2.47	0.77	0.83	75.1	18.07	0.0555	0.0241	235.8	132.4	1.1	1.1
84	3960.6	0.0012	0.0045	318.3	409.1	1.36	1.62	2.55	2.78	0.78	0.84	71.8	18.61	0.0544	0.0256	222.3	130.6	0.9	0.9
86	4116.1	0.0012	0.0042	322.5	407.2	1.37	1.61	2.84	3.22	0.79	0.85	68.3	19.26	0.0534	0.0274	208.2	128.8	0.7	0.7
88	4276.6	0.0012	0.0039	327.1	404.8	1.39	1.60	3.27	3.88	0.80	0.87	64.7	20.03	0.0526	0.0297	193.2	126.8	0.6	0.6
90	4442.3	0.0013	0.0036	332.1	401.9	1.40	1.59	3.98	4.97	0.81	0.88	60.7	20.99	0.0520	0.0328	177.0	124.6	0.4	0.4
92	4613.6	0.0013	0.0032	337.8	397.9	1.42	1.58	5.38	7.14	0.83	0.91	56.2	22.29	0.0521	0.0374	159.3	122.3	0.2	0.2
94	4791.1	0.0014	0.0029	344.8	392.0	1.43	1.56	9.47	13.47	0.86	0.94	50.6	24.28	0.0541	0.0460	139.4	119.7	0.1	0.1
96	4976.1	0.0017	0.0022	358.7	376.6	1.47	1.52	164.63	225.88	0.95	0.99	42.2	31.50	0.0953	0.1116	114.6	114.7	0.0	0.0

R407C 冷媒飽和性質表 (Staurated Properities Table of R407C Refrigerant)

冷媒(refrigerant)：		R407C		臨界溫度(critical temperature)： 359.2 K		臨界壓力(critical Pressure)： 4629.8 kPa		莫爾質量(molar mass)： 86.2 kg/kmol											
溫度 (temp.)	壓力 (press.)	比容 (specific volume)		比焓 (specific enthalpy)		比熵 (spec. entropy)		定壓比熱 (isobaric sp. heat)		定容比熱 (isochoric sp. heat)		黏度 (viscosity)		熱傳導率 (thermal conductivity)		聲速 (speed of sound)		表面張力 (surface tension)	
°C	kPa	m3/kg		kJ/kg		kJ/(kgK)		kJ/(kgK)		kJ/(kgK)		mPa-s		W/(mK)		m/s		m-N/m	
相(phase)		液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)
-80	11.9	0.0007	2.7694	94.5	364.5	0.64	2.07	1.28	0.66	0.82	0.55	811.1	8.16	0.1460	0.0066	994.4	147.5	24.3	24.3
-78	13.8	0.0007	2.3866	97.0	365.7	0.66	2.06	1.28	0.66	0.82	0.56	775.7	8.25	0.1448	0.0067	983.1	148.1	23.9	23.9
-76	15.8	0.0007	2.0645	99.6	366.9	0.67	2.05	1.28	0.67	0.82	0.56	742.4	8.33	0.1436	0.0068	971.9	148.7	23.6	23.6
-74	18.1	0.0007	1.7924	102.2	368.1	0.68	2.04	1.28	0.67	0.82	0.57	711.1	8.42	0.1424	0.0069	960.9	149.3	23.2	23.2
-72	20.7	0.0007	1.5616	104.7	369.3	0.69	2.04	1.28	0.68	0.82	0.57	681.8	8.51	0.1412	0.0070	950.0	149.9	22.8	22.8
-70	23.5	0.0007	1.3651	107.3	370.6	0.71	2.03	1.28	0.68	0.82	0.58	654.1	8.60	0.1400	0.0072	939.2	150.5	22.5	22.5
-68	26.7	0.0007	1.1972	109.9	371.8	0.72	2.02	1.29	0.69	0.83	0.58	628.1	8.68	0.1388	0.0073	928.6	151.0	22.1	22.1
-66	30.2	0.0007	1.0532	112.4	373.0	0.73	2.01	1.29	0.69	0.83	0.59	603.5	8.77	0.1376	0.0074	918.0	151.6	21.8	21.8
-64	34.0	0.0007	0.9294	115.0	374.2	0.75	2.01	1.29	0.70	0.83	0.59	580.3	8.86	0.1364	0.0075	907.5	152.1	21.4	21.4
-62	38.3	0.0007	0.8225	117.6	375.4	0.76	2.00	1.29	0.70	0.83	0.60	558.3	8.94	0.1352	0.0077	897.1	152.6	21.0	21.0
-60	43.0	0.0007	0.7299	120.2	376.7	0.77	1.99	1.29	0.71	0.83	0.60	537.6	9.03	0.1341	0.0078	886.8	153.1	20.7	20.7
-58	48.1	0.0007	0.6495	122.8	377.9	0.78	1.99	1.29	0.71	0.83	0.60	517.9	9.12	0.1329	0.0079	876.6	153.6	20.3	20.3
-56	53.7	0.0007	0.5795	125.4	379.1	0.79	1.98	1.30	0.72	0.83	0.61	499.2	9.21	0.1317	0.0080	866.4	154.1	20.0	20.0
-54	59.9	0.0007	0.5183	128.0	380.3	0.81	1.98	1.30	0.73	0.83	0.61	481.5	9.30	0.1305	0.0082	856.3	154.6	19.6	19.6
-52	66.6	0.0007	0.4648	130.6	381.5	0.82	1.97	1.30	0.73	0.83	0.62	464.7	9.39	0.1294	0.0083	846.2	155.0	19.3	19.3
-50	73.8	0.0007	0.4177	133.2	382.7	0.83	1.97	1.30	0.74	0.84	0.63	448.7	9.47	0.1282	0.0084	836.2	155.4	18.9	18.9
-48	81.7	0.0007	0.3762	135.8	383.9	0.84	1.96	1.31	0.75	0.84	0.63	433.5	9.56	0.1270	0.0085	826.2	155.9	18.6	18.6
-46	90.3	0.0007	0.3396	138.4	385.1	0.85	1.96	1.31	0.75	0.84	0.64	419.0	9.65	0.1259	0.0087	816.2	156.3	18.2	18.2
-44	99.5	0.0007	0.3072	141.0	386.3	0.86	1.95	1.31	0.76	0.84	0.64	405.1	9.74	0.1247	0.0088	806.3	156.6	17.9	17.9
-42	109.5	0.0007	0.2785	143.7	387.4	0.87	1.95	1.31	0.77	0.84	0.65	392.0	9.83	0.1236	0.0089	796.4	157.0	17.5	17.5
-40	120.3	0.0007	0.2529	146.3	388.6	0.89	1.94	1.32	0.77	0.84	0.65	379.4	9.92	0.1224	0.0091	786.6	157.3	17.2	17.2
-38	131.8	0.0007	0.2301	148.9	389.8	0.90	1.94	1.32	0.78	0.84	0.66	367.4	10.01	0.1213	0.0092	776.7	157.6	16.9	16.9
-36	144.3	0.0007	0.2098	151.6	391.0	0.91	1.93	1.32	0.79	0.84	0.66	355.9	10.10	0.1201	0.0093	766.9	157.9	16.5	16.5
-34	157.6	0.0007	0.1916	154.2	392.1	0.92	1.93	1.33	0.80	0.85	0.67	344.9	10.19	0.1190	0.0095	757.1	158.2	16.2	16.2
-32	171.9	0.0007	0.1753	156.9	393.3	0.93	1.93	1.33	0.80	0.85	0.67	334.3	10.29	0.1179	0.0096	747.4	158.5	15.8	15.8
-30	187.1	0.0007	0.1606	159.6	394.4	0.94	1.92	1.34	0.81	0.85	0.68	324.3	10.38	0.1167	0.0097	737.6	158.7	15.5	15.5
-28	203.4	0.0008	0.1474	162.3	395.5	0.95	1.92	1.34	0.82	0.85	0.69	314.6	10.47	0.1156	0.0099	727.9	158.9	15.2	15.2
-26	220.8	0.0008	0.1354	165.0	396.7	0.96	1.91	1.34	0.83	0.85	0.69	305.3	10.56	0.1145	0.0100	718.1	159.1	14.8	14.8
-24	239.3	0.0008	0.1247	167.7	397.8	0.97	1.91	1.35	0.84	0.85	0.70	296.4	10.65	0.1134	0.0102	708.4	159.3	14.5	14.5
-22	259.0	0.0008	0.1149	170.4	398.9	0.99	1.91	1.35	0.85	0.86	0.70	287.9	10.74	0.1123	0.0103	698.7	159.4	14.2	14.2
-20	279.9	0.0008	0.1061	173.1	400.0	1.00	1.90	1.36	0.86	0.86	0.71	279.6	10.84	0.1112	0.0104	689.0	159.6	13.9	13.9
-18	302.1	0.0008	0.0980	175.8	401.1	1.01	1.90	1.36	0.86	0.86	0.71	271.7	10.93	0.1101	0.0106	679.2	159.7	13.5	13.5
-16	325.6	0.0008	0.0907	178.5	402.2	1.02	1.90	1.37	0.87	0.86	0.72	264.1	11.02	0.1090	0.0107	669.5	159.7	13.2	13.2
-14	350.5	0.0008	0.0840	181.3	403.2	1.03	1.90	1.37	0.88	0.86	0.73	256.8	11.11	0.1079	0.0109	659.8	159.8	12.9	12.9
-12	376.9	0.0008	0.0780	184.0	404.3	1.04	1.89	1.38	0.89	0.87	0.73	249.7	11.20	0.1068	0.0110	650.1	159.8	12.6	12.6
-10	404.7	0.0008	0.0724	186.8	405.3	1.05	1.89	1.38	0.90	0.87	0.74	242.9	11.30	0.1057	0.0111	640.3	159.8	12.2	12.2
-8	434.0	0.0008	0.0673	189.6	406.4	1.06	1.89	1.39	0.91	0.87	0.75	236.3	11.39	0.1046	0.0113	630.6	159.8	11.9	11.9
-6	465.0	0.0008	0.0626	192.4	407.4	1.07	1.88	1.40	0.92	0.87	0.75	229.9	11.48	0.1036	0.0115	620.8	159.7	11.6	11.6
-4	497.5	0.0008	0.0584	195.2	408.4	1.08	1.88	1.40	0.93	0.87	0.76	223.8	11.57	0.1025	0.0116	611.1	159.7	11.3	11.3
-2	531.8	0.0008	0.0544	198.0	409.4	1.09	1.88	1.41	0.95	0.88	0.76	217.8	11.67	0.1014	0.0118	601.3	159.5	11.0	11.0

Refer to the NIST Database 23 - RefProp 7.0, created by Cheng-Te Lin, Kuenling refrigerating machinery Co., LTD.

R407C 冷媒飽和性質表 (Staurated Properities Table of R407C Refrigerant)

冷媒(refrigerant)：		R407C		臨界溫度(critical temperature)： 359.2 K		臨界壓力(critical Pressure)： 4629.8 kPa		莫爾質量(molar mass)： 86.2 kg/kmol											
溫度 (temp.)	壓力 (press.)	比容 (specific volume)		比焓 (specific enthalpy)		比熵 (spec. entropy)		定壓比熱 (isobaric sp. heat)		定容比熱 (isochoric sp. heat)		黏度 (viscosity)		熱傳導率 (thermal conductivity)		聲速 (speed of sound)		表面張力 (surface tension)	
°C	kPa	m3/kg		kJ/kg		kJ/(kgK)		kJ/(kgK)		kJ/(kgK)		mPa-s		W/(mK)		m/s		m-N/m	
相(phase)		液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)
0	567.9	0.0008	0.0508	200.8	410.3	1.10	1.88	1.42	0.96	0.88	0.77	212.1	11.76	0.1004	0.0119	591.5	159.4	10.7	10.7
2	605.7	0.0008	0.0474	203.7	411.3	1.11	1.87	1.42	0.97	0.88	0.78	206.5	11.85	0.0993	0.0121	581.7	159.2	10.4	10.4
4	645.4	0.0008	0.0444	206.5	412.3	1.12	1.87	1.43	0.98	0.88	0.78	201.1	11.94	0.0983	0.0123	571.9	159.0	10.0	10.0
6	687.1	0.0008	0.0415	209.4	413.2	1.13	1.87	1.44	0.99	0.89	0.79	195.9	12.03	0.0972	0.0124	562.1	158.8	9.7	9.7
8	730.7	0.0008	0.0389	212.3	414.1	1.14	1.87	1.45	1.01	0.89	0.80	190.8	12.12	0.0962	0.0126	552.2	158.5	9.4	9.4
10	776.4	0.0008	0.0364	215.2	415.0	1.15	1.87	1.46	1.02	0.89	0.80	185.9	12.21	0.0951	0.0128	542.4	158.3	9.1	9.1
12	824.2	0.0008	0.0342	218.1	415.9	1.16	1.86	1.46	1.03	0.89	0.81	181.1	12.29	0.0941	0.0130	532.5	157.9	8.8	8.8
14	874.1	0.0008	0.0321	221.1	416.7	1.17	1.86	1.47	1.05	0.89	0.82	176.4	12.38	0.0931	0.0132	522.5	157.6	8.5	8.5
16	926.3	0.0009	0.0301	224.0	417.5	1.18	1.86	1.48	1.06	0.90	0.82	171.9	12.46	0.0920	0.0134	512.6	157.2	8.2	8.2
18	980.8	0.0009	0.0283	227.0	418.3	1.19	1.86	1.49	1.08	0.90	0.83	167.5	12.55	0.0910	0.0136	502.6	156.7	7.9	7.9
20	1037.6	0.0009	0.0266	230.0	419.1	1.20	1.85	1.51	1.09	0.90	0.84	163.2	12.63	0.0900	0.0138	492.6	156.3	7.7	7.7
22	1096.8	0.0009	0.0250	233.0	419.9	1.21	1.85	1.52	1.11	0.91	0.84	159.0	12.71	0.0890	0.0140	482.6	155.8	7.4	7.4
24	1158.5	0.0009	0.0235	236.1	420.6	1.22	1.85	1.53	1.13	0.91	0.85	154.9	12.78	0.0879	0.0142	472.6	155.3	7.1	7.1
26	1222.8	0.0009	0.0222	239.1	421.3	1.23	1.85	1.54	1.14	0.91	0.86	150.9	12.86	0.0869	0.0145	462.5	154.7	6.8	6.8
28	1289.6	0.0009	0.0209	242.2	422.0	1.24	1.85	1.56	1.16	0.91	0.86	147.0	12.95	0.0859	0.0147	452.3	154.1	6.5	6.5
30	1359.1	0.0009	0.0197	245.3	422.6	1.25	1.84	1.57	1.18	0.92	0.87	143.2	13.08	0.0849	0.0149	442.2	153.4	6.2	6.2
32	1431.4	0.0009	0.0185	248.4	423.3	1.26	1.84	1.58	1.20	0.92	0.88	139.5	13.21	0.0839	0.0152	432.0	152.7	6.0	6.0
34	1506.4	0.0009	0.0175	251.6	423.8	1.27	1.84	1.60	1.23	0.92	0.88	135.8	13.35	0.0829	0.0155	421.7	152.0	5.7	5.7
36	1584.3	0.0009	0.0165	254.8	424.4	1.28	1.84	1.62	1.25	0.93	0.89	132.2	13.49	0.0819	0.0158	411.4	151.2	5.4	5.4
38	1665.2	0.0009	0.0156	258.0	424.9	1.29	1.83	1.64	1.28	0.93	0.90	128.7	13.64	0.0809	0.0161	401.1	150.4	5.1	5.1
40	1749.0	0.0009	0.0147	261.2	425.3	1.30	1.83	1.66	1.30	0.93	0.91	125.2	13.80	0.0799	0.0164	390.7	149.5	4.9	4.9
42	1836.0	0.0009	0.0138	264.5	425.8	1.31	1.83	1.68	1.33	0.94	0.91	121.8	13.96	0.0789	0.0168	380.2	148.6	4.6	4.6
44	1926.1	0.0010	0.0131	267.8	426.1	1.32	1.83	1.70	1.36	0.94	0.92	118.5	14.13	0.0779	0.0171	369.7	147.6	4.4	4.4
46	2019.4	0.0010	0.0123	271.2	426.4	1.33	1.82	1.73	1.40	0.94	0.93	115.2	14.30	0.0769	0.0175	359.1	146.6	4.1	4.1
48	2116.0	0.0010	0.0116	274.6	426.7	1.34	1.82	1.75	1.44	0.95	0.94	112.0	14.49	0.0759	0.0179	348.4	145.5	3.8	3.8
50	2216.0	0.0010	0.0110	278.0	426.9	1.35	1.82	1.79	1.48	0.95	0.95	108.8	14.68	0.0749	0.0184	337.6	144.4	3.6	3.6
52	2319.4	0.0010	0.0103	281.5	427.1	1.36	1.82	1.82	1.52	0.96	0.96	105.6	14.88	0.0739	0.0188	326.7	143.2	3.3	3.3
54	2426.4	0.0010	0.0098	285.0	427.1	1.38	1.81	1.86	1.57	0.96	0.97	102.5	15.10	0.0729	0.0194	315.7	141.9	3.1	3.1
56	2537.0	0.0010	0.0092	288.6	427.1	1.39	1.81	1.90	1.63	0.97	0.97	99.4	15.33	0.0719	0.0199	304.5	140.6	2.9	2.9
58	2651.2	0.0010	0.0087	292.3	427.0	1.40	1.81	1.95	1.69	0.97	0.98	96.3	15.57	0.0709	0.0205	293.1	139.2	2.6	2.6
60	2769.2	0.0011	0.0081	296.0	426.8	1.41	1.80	2.00	1.76	0.98	0.99	93.2	15.83	0.0700	0.0212	281.6	137.8	2.4	2.4
62	2891.1	0.0011	0.0077	299.8	426.6	1.42	1.80	2.06	1.84	0.98	1.01	90.1	16.11	0.0690	0.0219	269.8	136.3	2.2	2.2
64	3017.0	0.0011	0.0072	303.7	426.2	1.43	1.80	2.14	1.94	0.99	1.02	87.0	16.42	0.0680	0.0228	257.8	134.7	1.9	1.9
66	3146.8	0.0011	0.0068	307.7	425.6	1.44	1.79	2.23	2.05	1.00	1.03	83.9	16.75	0.0670	0.0237	245.5	133.0	1.7	1.7
68	3280.8	0.0011	0.0063	311.7	424.9	1.45	1.79	2.34	2.18	1.01	1.04	80.8	17.11	0.0660	0.0247	232.8	131.2	1.5	1.5
70	3418.9	0.0011	0.0059	316.0	424.0	1.46	1.78	2.47	2.34	1.02	1.05	77.7	17.52	0.0651	0.0259	219.8	129.3	1.3	1.3
72	3561.3	0.0012	0.0055	320.3	422.9	1.48	1.78	2.65	2.54	1.03	1.07	74.4	17.97	0.0641	0.0272	206.4	127.4	1.1	1.1
74	3708.0	0.0012	0.0051	324.9	421.5	1.49	1.77	2.88	2.80	1.04	1.08	71.1	18.49	0.0633	0.0288	192.5	125.3	0.9	0.9
76	3859.1	0.0012	0.0048	329.8	419.8	1.50	1.76	3.21	3.15	1.06	1.10	67.6	19.10	0.0625	0.0307	178.2	123.0	0.7	0.7
78	4014.4	0.0013	0.0044	335.0	417.7	1.52	1.75	3.70	3.64	1.08	1.12	63.9	19.82	0.0618	0.0330	163.4	120.6	0.5	0.5

Refer to the NIST Database 23 - RefProp 7.0, created by Cheng-Te Lin, Kuenling refrigerating machinery Co., LTD.

R410A 冷媒飽和性質表 (Staurated Properities Table of R410A Refrigerant)

冷媒(refrigerant)：		R410A		臨界溫度(critical temperature)： 344.5 K		臨界壓力(critical Pressure)： 4902.6 kPa		莫爾質量(molar mass)： 72.6 kg/kmol											
溫度 (temp.)	壓力 (press.)	比容 (specific volume)		比焓 (specific enthalpy)		比熵 (spec. entropy)		定壓比熱 (isobaric sp. heat)		定容比熱 (isochoric sp. heat)		黏度 (viscosity)		熱傳導率 (thermal conductivity)		聲速 (speed of sound)		表面張力 (surface tension)	
°C	kPa	m3/kg		kJ/kg		kJ/(kgK)		kJ/(kgK)		kJ/(kgK)		mPa-s		W/(mK)		m/s		m-N/m	
相(phase)		液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)
-88	10.2	0.0007	2.0782	78.1	380.1	0.53	2.16	1.34	0.67	0.87	0.54	809.2	8.19	0.1683	0.0073	1002.9	159.8	24.7	24.7
-86	11.9	0.0007	1.7996	80.8	381.2	0.55	2.15	1.34	0.67	0.86	0.55	772.3	8.28	0.1670	0.0074	993.1	160.4	24.3	24.3
-84	13.8	0.0007	1.5641	83.5	382.4	0.56	2.14	1.34	0.68	0.86	0.55	737.6	8.37	0.1657	0.0074	983.3	161.1	23.9	23.9
-82	15.9	0.0007	1.3641	86.1	383.6	0.57	2.13	1.34	0.69	0.86	0.56	704.9	8.46	0.1643	0.0075	973.5	161.8	23.5	23.5
-80	18.4	0.0007	1.1938	88.8	384.7	0.59	2.12	1.35	0.69	0.86	0.56	674.0	8.55	0.1630	0.0076	963.7	162.4	23.1	23.1
-78	21.1	0.0007	1.0481	91.5	385.9	0.60	2.11	1.35	0.70	0.86	0.57	644.9	8.65	0.1617	0.0077	954.0	163.0	22.8	22.8
-76	24.2	0.0007	0.9231	94.2	387.0	0.62	2.10	1.35	0.71	0.86	0.57	617.4	8.74	0.1603	0.0078	944.2	163.6	22.4	22.4
-74	27.6	0.0007	0.8154	96.9	388.1	0.63	2.09	1.35	0.71	0.86	0.58	591.4	8.83	0.1590	0.0079	934.5	164.2	22.0	22.0
-72	31.4	0.0007	0.7224	99.6	389.3	0.64	2.08	1.35	0.72	0.86	0.59	566.8	8.93	0.1577	0.0079	924.7	164.8	21.6	21.6
-70	35.6	0.0007	0.6418	102.3	390.4	0.66	2.07	1.35	0.73	0.86	0.59	543.6	9.02	0.1563	0.0080	914.9	165.3	21.3	21.3
-68	40.3	0.0007	0.5717	105.0	391.5	0.67	2.07	1.35	0.73	0.86	0.60	521.7	9.11	0.1550	0.0081	905.2	165.8	20.9	20.9
-66	45.5	0.0007	0.5106	107.7	392.6	0.68	2.06	1.35	0.74	0.86	0.60	500.9	9.21	0.1536	0.0082	895.4	166.4	20.5	20.5
-64	51.1	0.0007	0.4572	110.4	393.7	0.70	2.05	1.35	0.75	0.85	0.61	481.2	9.30	0.1522	0.0083	885.7	166.9	20.1	20.1
-62	57.4	0.0007	0.4103	113.2	394.8	0.71	2.04	1.36	0.76	0.85	0.61	462.5	9.40	0.1509	0.0084	875.9	167.3	19.8	19.8
-60	64.2	0.0007	0.3691	115.9	395.9	0.72	2.04	1.36	0.77	0.85	0.62	444.8	9.49	0.1495	0.0085	866.2	167.8	19.4	19.4
-58	71.7	0.0007	0.3328	118.6	397.0	0.73	2.03	1.36	0.78	0.85	0.63	428.1	9.59	0.1482	0.0086	856.4	168.2	19.0	19.0
-56	79.9	0.0007	0.3007	121.3	398.1	0.75	2.02	1.36	0.79	0.85	0.63	412.2	9.68	0.1468	0.0087	846.6	168.6	18.7	18.7
-54	88.8	0.0007	0.2723	124.1	399.1	0.76	2.01	1.37	0.79	0.85	0.64	397.0	9.78	0.1454	0.0088	836.8	169.0	18.3	18.3
-52	98.5	0.0007	0.2470	126.8	400.2	0.77	2.01	1.37	0.80	0.85	0.65	382.7	9.88	0.1441	0.0089	827.0	169.4	17.9	17.9
-50	109.0	0.0007	0.2245	129.5	401.2	0.78	2.00	1.37	0.81	0.85	0.65	369.0	9.97	0.1427	0.0090	817.2	169.8	17.6	17.6
-48	120.3	0.0007	0.2045	132.3	402.3	0.80	2.00	1.37	0.82	0.86	0.66	356.1	10.07	0.1414	0.0091	807.4	170.1	17.2	17.2
-46	132.6	0.0008	0.1865	135.0	403.3	0.81	1.99	1.38	0.83	0.86	0.67	343.7	10.17	0.1400	0.0092	797.5	170.4	16.9	16.9
-44	145.9	0.0008	0.1705	137.8	404.3	0.82	1.98	1.38	0.84	0.86	0.67	331.9	10.27	0.1387	0.0093	787.7	170.7	16.5	16.5
-42	160.2	0.0008	0.1561	140.6	405.3	0.83	1.98	1.38	0.85	0.86	0.68	320.7	10.37	0.1373	0.0094	777.8	170.9	16.1	16.1
-40	175.5	0.0008	0.1431	143.4	406.3	0.84	1.97	1.39	0.86	0.86	0.69	310.0	10.46	0.1360	0.0095	767.9	171.2	15.8	15.8
-38	192.0	0.0008	0.1314	146.1	407.2	0.86	1.97	1.39	0.88	0.86	0.69	299.8	10.56	0.1346	0.0096	758.0	171.4	15.4	15.4
-36	209.6	0.0008	0.1209	148.9	408.2	0.87	1.96	1.40	0.89	0.86	0.70	290.1	10.67	0.1333	0.0097	748.1	171.5	15.1	15.1
-34	228.5	0.0008	0.1113	151.7	409.1	0.88	1.96	1.40	0.90	0.86	0.71	280.8	10.77	0.1319	0.0098	738.1	171.7	14.7	14.7
-32	248.7	0.0008	0.1027	154.6	410.1	0.89	1.95	1.41	0.91	0.86	0.71	271.9	10.87	0.1306	0.0099	728.1	171.8	14.4	14.4
-30	270.3	0.0008	0.0948	157.4	411.0	0.90	1.95	1.41	0.92	0.86	0.72	263.4	10.97	0.1293	0.0101	718.1	171.9	14.0	14.0
-28	293.3	0.0008	0.0877	160.2	411.9	0.91	1.94	1.42	0.93	0.86	0.73	255.3	11.07	0.1279	0.0102	708.1	172.0	13.7	13.7
-26	317.7	0.0008	0.0812	163.1	412.7	0.93	1.94	1.42	0.94	0.86	0.74	247.5	11.18	0.1266	0.0103	698.0	172.0	13.4	13.4
-24	343.8	0.0008	0.0752	165.9	413.6	0.94	1.93	1.43	0.96	0.87	0.74	240.1	11.28	0.1253	0.0104	687.9	172.1	13.0	13.0
-22	371.4	0.0008	0.0698	168.8	414.5	0.95	1.93	1.43	0.97	0.87	0.75	232.9	11.39	0.1240	0.0105	677.8	172.0	12.7	12.7
-20	400.7	0.0008	0.0649	171.7	415.3	0.96	1.92	1.44	0.98	0.87	0.76	226.1	11.49	0.1227	0.0107	667.6	172.0	12.3	12.3
-18	431.7	0.0008	0.0603	174.5	416.1	0.97	1.92	1.44	1.00	0.87	0.76	219.5	11.60	0.1214	0.0108	657.4	171.9	12.0	12.0
-16	464.5	0.0008	0.0562	177.4	416.9	0.98	1.91	1.45	1.01	0.87	0.77	213.1	11.71	0.1201	0.0110	647.2	171.8	11.7	11.7
-14	499.2	0.0008	0.0523	180.4	417.7	0.99	1.91	1.46	1.02	0.87	0.78	207.0	11.82	0.1188	0.0111	636.9	171.7	11.3	11.3
-12	535.9	0.0008	0.0488	183.3	418.4	1.00	1.91	1.47	1.04	0.87	0.79	201.2	11.93	0.1175	0.0113	626.5	171.5	11.0	11.0
-10	574.6	0.0008	0.0456	186.2	419.2	1.02	1.90	1.47	1.05	0.88	0.79	195.5	12.04	0.1162	0.0114	616.2	171.3	10.7	10.7

Refer to the NIST Database 23 - RefProp 7.0, created by Cheng-Te Lin, Kuenling refrigerating machinery Co., LTD.

R410A 冷媒飽和性質表 (Staurated Properities Table of R410A Refrigerant)

冷媒(refrigerant)：		R410A		臨界溫度(critical temperature)： 344.5 K		臨界壓力(critical Pressure)： 4902.6 kPa		莫爾質量(molar mass)： 72.6 kg/kmol											
溫度	壓力	比容		比焓		比熵		定壓比熱		定容比熱		黏度		熱傳導率		聲速		表面張力	
(temp.)	(press.)	(specific volume)		(specific enthalpy)		(spec. entropy)		(isobaric sp. heat)		(isochoric sp. heat)		(viscosity)		(thermal conductivity)		(speed of sound)		(surface tension)	
°C	kPa	m3/kg		kJ/kg		kJ/(kgK)		kJ/(kgK)		kJ/(kgK)		mPa-s		W/(mK)		m/s		m-N/m	
相(phase)		液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)	液(liq.)	汽(vap.)
-8	615.3	0.0008	0.0426	189.2	419.9	1.03	1.90	1.48	1.07	0.88	0.80	190.1	12.15	0.1149	0.0116	605.8	171.1	10.4	10.4
-6	658.3	0.0008	0.0398	192.2	420.6	1.04	1.89	1.49	1.08	0.88	0.81	184.8	12.27	0.1136	0.0118	595.3	170.8	10.0	10.0
-4	703.4	0.0008	0.0373	195.2	421.3	1.05	1.89	1.50	1.10	0.88	0.81	179.8	12.38	0.1124	0.0120	584.8	170.5	9.7	9.7
-2	750.9	0.0008	0.0349	198.2	421.9	1.06	1.88	1.51	1.12	0.88	0.82	174.9	12.50	0.1111	0.0121	574.3	170.2	9.4	9.4
0	800.7	0.0009	0.0327	201.2	422.5	1.07	1.88	1.52	1.14	0.89	0.83	170.1	12.62	0.1098	0.0123	563.7	169.8	9.1	9.1
2	853.0	0.0009	0.0307	204.3	423.1	1.08	1.88	1.53	1.15	0.89	0.83	165.5	12.74	0.1086	0.0125	553.1	169.4	8.8	8.8
4	907.8	0.0009	0.0288	207.3	423.7	1.09	1.87	1.54	1.17	0.89	0.84	161.1	12.86	0.1073	0.0127	542.4	168.9	8.4	8.4
6	965.3	0.0009	0.0270	210.4	424.2	1.10	1.87	1.55	1.19	0.89	0.85	156.8	12.98	0.1061	0.0130	531.7	168.5	8.1	8.1
8	1025.4	0.0009	0.0254	213.5	424.7	1.11	1.87	1.57	1.21	0.90	0.86	152.6	13.11	0.1049	0.0132	520.9	167.9	7.8	7.8
10	1088.4	0.0009	0.0239	216.7	425.2	1.13	1.86	1.58	1.23	0.90	0.86	148.6	13.36	0.1036	0.0134	510.1	167.4	7.5	7.5
12	1154.1	0.0009	0.0224	219.8	425.6	1.14	1.86	1.59	1.26	0.90	0.87	144.6	13.50	0.1024	0.0137	499.3	166.8	7.2	7.2
14	1222.9	0.0009	0.0211	223.0	426.0	1.15	1.85	1.61	1.28	0.90	0.88	140.8	13.64	0.1012	0.0139	488.4	166.1	6.9	6.9
16	1294.6	0.0009	0.0199	226.2	426.4	1.16	1.85	1.62	1.31	0.91	0.88	137.0	13.79	0.1000	0.0142	477.4	165.5	6.6	6.6
18	1369.5	0.0009	0.0187	229.5	426.7	1.17	1.85	1.64	1.33	0.91	0.89	133.4	13.94	0.0987	0.0145	466.4	164.7	6.3	6.3
20	1447.6	0.0009	0.0176	232.8	426.9	1.18	1.84	1.66	1.36	0.91	0.90	129.9	14.09	0.0975	0.0148	455.3	164.0	6.0	6.0
22	1529.0	0.0009	0.0166	236.1	427.2	1.19	1.84	1.68	1.39	0.92	0.91	126.4	14.25	0.0963	0.0151	444.1	163.2	5.7	5.7
24	1613.8	0.0009	0.0156	239.4	427.3	1.20	1.83	1.70	1.43	0.92	0.91	123.0	14.42	0.0951	0.0155	432.9	162.3	5.4	5.4
26	1702.0	0.0009	0.0147	242.8	427.5	1.21	1.83	1.72	1.46	0.92	0.92	119.7	14.59	0.0939	0.0159	421.6	161.4	5.2	5.2
28	1793.8	0.0010	0.0139	246.2	427.5	1.22	1.83	1.74	1.50	0.93	0.93	116.4	14.77	0.0927	0.0163	410.3	160.5	4.9	4.9
30	1889.3	0.0010	0.0131	249.6	427.5	1.24	1.82	1.77	1.55	0.93	0.94	113.2	14.95	0.0915	0.0167	398.8	159.4	4.6	4.6
32	1988.6	0.0010	0.0123	253.1	427.5	1.25	1.82	1.80	1.59	0.94	0.95	110.1	15.15	0.0904	0.0172	387.3	158.4	4.3	4.3
34	2091.8	0.0010	0.0116	256.6	427.3	1.26	1.81	1.83	1.65	0.94	0.96	107.0	15.35	0.0892	0.0177	375.7	157.3	4.1	4.1
36	2198.9	0.0010	0.0109	260.2	427.1	1.27	1.81	1.86	1.71	0.95	0.97	104.0	15.56	0.0880	0.0182	363.9	156.1	3.8	3.8
38	2310.2	0.0010	0.0103	263.9	426.8	1.28	1.80	1.90	1.77	0.95	0.98	101.0	15.78	0.0868	0.0188	352.1	154.9	3.5	3.5
40	2425.6	0.0010	0.0097	267.5	426.5	1.29	1.80	1.94	1.84	0.96	0.99	98.1	16.01	0.0857	0.0195	340.1	153.6	3.3	3.3
42	2545.4	0.0010	0.0091	271.3	426.0	1.30	1.79	1.99	1.93	0.96	1.00	95.2	16.26	0.0845	0.0202	327.9	152.2	3.0	3.0
44	2669.7	0.0011	0.0086	275.1	425.4	1.31	1.79	2.04	2.02	0.97	1.01	92.3	16.52	0.0833	0.0211	315.6	150.7	2.7	2.7
46	2798.5	0.0011	0.0080	279.0	424.7	1.33	1.78	2.10	2.13	0.98	1.02	89.4	16.80	0.0822	0.0220	303.0	149.2	2.5	2.5
48	2932.1	0.0011	0.0076	283.0	423.9	1.34	1.78	2.17	2.25	0.98	1.03	86.5	17.11	0.0810	0.0230	290.2	147.6	2.3	2.3
50	3070.6	0.0011	0.0071	287.1	422.9	1.35	1.77	2.26	2.40	0.99	1.05	83.7	17.43	0.0799	0.0241	277.2	145.9	2.0	2.0
52	3214.0	0.0011	0.0066	291.2	421.8	1.36	1.76	2.36	2.58	1.00	1.06	80.8	17.79	0.0788	0.0253	263.9	144.1	1.8	1.8
54	3362.7	0.0011	0.0062	295.6	420.4	1.38	1.76	2.49	2.80	1.01	1.08	77.9	18.19	0.0776	0.0268	250.2	142.2	1.6	1.6
56	3516.8	0.0012	0.0058	300.0	418.9	1.39	1.75	2.65	3.08	1.02	1.09	75.0	18.63	0.0765	0.0285	236.1	140.2	1.3	1.3
58	3676.4	0.0012	0.0054	304.7	417.0	1.40	1.74	2.86	3.44	1.04	1.11	71.9	19.12	0.0755	0.0304	221.5	138.1	1.1	1.1
60	3841.8	0.0012	0.0050	309.6	414.8	1.42	1.73	3.15	3.93	1.05	1.13	68.8	19.70	0.0744	0.0328	206.4	135.8	0.9	0.9
62	4013.3	0.0013	0.0046	314.9	412.1	1.43	1.72	3.58	4.63	1.07	1.15	65.5	20.37	0.0735	0.0356	190.7	133.3	0.7	0.7
64	4191.1	0.0013	0.0042	320.6	408.8	1.45	1.71	4.26	5.70	1.09	1.18	61.9	21.19	0.0728	0.0393	174.1	130.6	0.5	0.5
66	4375.4	0.0014	0.0038	326.9	404.6	1.47	1.70	5.51	7.60	1.13	1.21	58.0	22.25	0.0726	0.0442	156.5	127.7	0.4	0.4
68	4566.8	0.0015	0.0034	334.5	398.8	1.49	1.68	8.54	11.80	1.17	1.25	53.2	23.73	0.0735	0.0518	137.6	124.2	0.2	0.2
70	4765.3	0.0016	0.0029	345.3	389.6	1.52	1.65	24.52	28.76	1.26	1.31	44.1	26.28	0.0768	0.0679	117.2	119.5	0.1	0.1

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