

Caractéristiques thermodynamiques du R407A à l'état saturé (liquide)

F. Benet d'après REFPROP <http://frederic.benet.free.fr>

Version du : 19/12/2018

θ bulle [°C]	P abs [bar]	θ rosée [°C]	h _L [kJ/kg]	h _V [kJ/kg]	v _L [dm³/kg]	v _V [dm³/kg]	μ _L [μPa.s]	μ _V [μPa.s]	S _V [kJ/kg.°C]
-95	0.040	-87.76	76.73	346.2	0.643	4308	967.3	7.790	1.935
-90	0.060	-82.84	83.04	349.1	0.649	2904	860.0	7.998	1.912
-85	0.089	-77.92	89.34	352.1	0.656	2008	769.8	8.205	1.891
-80	0.129	-73.00	95.63	355.1	0.662	1420	694.0	8.413	1.873
-75	0.182	-68.09	101.9	358.0	0.669	1025	629.4	8.621	1.856
-70	0.253	-63.17	108.2	361.0	0.676	754.0	573.7	8.829	1.840
-65	0.344	-58.25	114.5	364.0	0.683	564.4	525.3	9.037	1.826
-60	0.461	-53.33	120.8	366.9	0.690	429.2	482.8	9.244	1.813
-55	0.608	-48.41	127.2	369.8	0.697	331.1	445.2	9.452	1.802
-50	0.790	-43.50	133.6	372.7	0.705	258.8	411.7	9.659	1.791
-45	1.014	-38.59	140.0	375.6	0.713	204.7	381.8	9.866	1.781
-40	1.284	-33.67	146.4	378.4	0.721	163.8	354.8	10.07	1.772
-35	1.608	-28.76	152.9	381.1	0.729	132.3	330.3	10.28	1.764
-30	1.993	-23.86	159.5	383.9	0.738	107.9	308.1	10.49	1.756
-28	2.166	-21.89	162.1	384.9	0.742	99.73	299.8	10.57	1.753
-26	2.350	-19.93	164.7	386.0	0.745	92.26	291.7	10.65	1.751
-24	2.545	-17.97	167.4	387.0	0.749	85.46	284.0	10.73	1.748
-22	2.753	-16.01	170.0	388.1	0.753	79.26	276.5	10.81	1.745
-20	2.974	-14.05	172.7	389.1	0.757	73.59	269.2	10.90	1.743
-18	3.209	-12.09	175.4	390.1	0.761	68.41	262.2	10.98	1.740
-16	3.457	-10.13	178.1	391.1	0.765	63.66	255.4	11.06	1.738
-14	3.719	-8.171	180.8	392.1	0.769	59.30	248.8	11.14	1.736
-12	3.997	-6.213	183.5	393.1	0.773	55.29	242.4	11.22	1.733
-10	4.290	-4.255	186.2	394.1	0.778	51.61	236.2	11.31	1.731
-8	4.599	-2.299	188.9	395.0	0.782	48.22	230.2	11.39	1.729
-6	4.925	-0.343	191.7	396.0	0.787	45.09	224.3	11.47	1.727
-4	5.267	1.612	194.4	396.9	0.791	42.19	218.7	11.55	1.725
-2	5.628	3.567	197.2	397.8	0.796	39.52	213.2	11.63	1.723
0	6.007	5.520	200.0	398.7	0.801	37.05	207.8	11.71	1.721
2	6.404	7.473	202.8	399.6	0.806	34.75	202.6	11.79	1.719
4	6.822	9.424	205.6	400.4	0.811	32.62	197.5	11.87	1.717
6	7.259	11.37	208.4	401.3	0.816	30.65	192.5	11.96	1.715
8	7.717	13.32	211.3	402.1	0.821	28.81	187.7	12.04	1.713
10	8.196	15.27	214.2	402.9	0.827	27.09	183.0	12.12	1.711
12	8.697	17.22	217.0	403.7	0.832	25.50	178.4	12.21	1.709
14	9.220	19.17	219.9	404.4	0.838	24.01	173.9	12.30	1.707
16	9.767	21.11	222.8	405.1	0.844	22.62	169.5	12.39	1.705
18	10.34	23.05	225.8	405.8	0.850	21.32	165.2	12.48	1.703
20	10.93	24.99	228.7	406.5	0.857	20.10	161.0	12.57	1.702
22	11.55	26.93	231.7	407.2	0.863	18.97	156.8	12.66	1.700
24	12.20	28.87	234.7	407.8	0.870	17.90	152.8	12.76	1.698
26	12.87	30.81	237.7	408.3	0.877	16.89	148.9	12.88	1.696
28	13.57	32.74	240.8	408.9	0.884	15.95	145.0	13.01	1.694
30	14.30	34.68	243.9	409.4	0.892	15.07	141.2	13.14	1.692
32	15.05	36.61	247.0	409.9	0.899	14.23	137.4	13.27	1.690
34	15.84	38.54	250.1	410.3	0.908	13.45	133.7	13.40	1.688
36	16.65	40.46	253.3	410.7	0.916	12.71	130.1	13.55	1.686
38	17.49	42.39	256.4	411.0	0.925	12.01	126.5	13.70	1.683
40	18.37	44.31	259.7	411.3	0.934	11.35	123.0	13.85	1.681
45	20.70	49.10	267.9	411.8	0.959	9.850	114.4	14.28	1.675
50	23.24	53.87	276.4	411.9	0.988	8.537	106.1	14.77	1.668
55	26.01	58.61	285.2	411.5	1.021	7.376	97.85	15.35	1.660
60	29.02	63.32	294.5	410.4	1.060	6.342	89.68	16.07	1.650
65	32.27	67.98	304.3	408.4	1.110	5.405	81.38	16.99	1.639
70	35.80	72.57	315.1	405.0	1.175	4.539	72.67	18.25	1.624
75	39.59	77.04	327.5	399.2	1.274	3.702	62.86	20.20	1.603

Caractéristiques thermodynamiques du R407A à l'état saturé (vapeur)

F. Benet d'après REFPROP <http://frederic.benet.free.fr>

Version du : 19/12/2018

θ rosée [°C]	P abs [bar]	θ bulle [°C]	h _L [kJ/kg]	h _V [kJ/kg]	v _L [dm³/kg]	v _V [dm³/kg]	μ _L [μPa.s]	μ _V [μPa.s]	S _V [kJ/kg.°C]
-95	0.020	-102.4	67.38	341.9	0.634	8093	1168	7.485	1.973
-90	0.032	-97.27	73.85	344.9	0.640	5199	1023	7.696	1.946
-85	0.050	-92.19	80.28	347.8	0.647	3441	905.2	7.907	1.922
-80	0.076	-87.11	86.68	350.9	0.653	2339	805.9	8.118	1.900
-75	0.111	-82.03	93.08	353.9	0.659	1630	723.2	8.329	1.880
-70	0.160	-76.95	99.47	356.9	0.666	1161	653.4	8.540	1.862
-65	0.224	-71.86	105.9	359.9	0.673	843.7	593.6	8.751	1.846
-60	0.309	-66.78	112.3	362.9	0.680	624.6	541.8	8.963	1.831
-55	0.418	-61.70	118.7	365.9	0.687	470.2	496.6	9.174	1.818
-50	0.557	-56.61	125.1	368.9	0.695	359.4	456.8	9.385	1.805
-45	0.731	-51.53	131.6	371.8	0.702	278.6	421.6	9.596	1.794
-40	0.945	-46.44	138.1	374.7	0.710	218.8	390.1	9.807	1.784
-35	1.206	-41.35	144.7	377.6	0.719	173.8	361.8	10.02	1.774
-30	1.521	-36.26	151.3	380.4	0.727	139.5	336.3	10.23	1.766
-28	1.664	-34.22	153.9	381.6	0.731	128.1	326.7	10.31	1.763
-26	1.817	-32.18	156.6	382.7	0.734	117.9	317.6	10.40	1.759
-24	1.981	-30.15	159.3	383.8	0.738	108.6	308.7	10.48	1.756
-22	2.156	-28.11	162.0	384.9	0.742	100.2	300.2	10.56	1.754
-20	2.343	-26.07	164.7	386.0	0.745	92.51	292.0	10.65	1.751
-18	2.542	-24.03	167.4	387.0	0.749	85.56	284.1	10.73	1.748
-16	2.754	-21.99	170.1	388.1	0.753	79.23	276.4	10.82	1.745
-14	2.980	-19.95	172.8	389.1	0.757	73.46	269.0	10.90	1.743
-12	3.220	-17.91	175.5	390.2	0.761	68.18	261.9	10.98	1.740
-10	3.474	-15.87	178.3	391.2	0.765	63.36	254.9	11.07	1.738
-8	3.743	-13.83	181.0	392.2	0.769	58.94	248.2	11.15	1.735
-6	4.028	-11.78	183.8	393.2	0.774	54.88	241.7	11.23	1.733
-4	4.329	-9.739	186.6	394.2	0.778	51.15	235.4	11.32	1.731
-2	4.648	-7.695	189.4	395.2	0.783	47.72	229.3	11.40	1.729
0	4.983	-5.649	192.2	396.1	0.787	44.56	223.3	11.48	1.726
2	5.337	-3.603	195.0	397.1	0.792	41.65	217.6	11.57	1.724
4	5.710	-1.556	197.8	398.0	0.797	38.96	211.9	11.65	1.722
6	6.103	0.492	200.7	398.9	0.802	36.47	206.5	11.73	1.720
8	6.515	2.541	203.6	399.8	0.807	34.16	201.2	11.82	1.718
10	6.948	4.590	206.4	400.7	0.812	32.02	196.0	11.90	1.716
12	7.403	6.642	209.4	401.5	0.818	30.04	191.0	11.98	1.714
14	7.880	8.694	212.3	402.4	0.823	28.20	186.0	12.07	1.712
16	8.380	10.75	215.2	403.2	0.829	26.49	181.2	12.16	1.710
18	8.904	12.80	218.2	404.0	0.835	24.89	176.5	12.25	1.708
20	9.452	14.86	221.2	404.7	0.841	23.40	172.0	12.34	1.706
22	10.03	16.92	224.2	405.5	0.847	22.01	167.5	12.43	1.704
24	10.62	18.98	227.2	406.2	0.853	20.72	163.1	12.52	1.703
26	11.25	21.04	230.3	406.8	0.860	19.50	158.8	12.61	1.701
28	11.90	23.10	233.4	407.5	0.867	18.37	154.6	12.71	1.699
30	12.59	25.16	236.5	408.1	0.874	17.31	150.5	12.83	1.697
32	13.30	27.23	239.6	408.7	0.881	16.31	146.5	12.96	1.695
34	14.04	29.30	242.8	409.2	0.889	15.37	142.5	13.09	1.693
36	14.81	31.37	246.0	409.7	0.897	14.49	138.6	13.23	1.690
38	15.61	33.44	249.2	410.2	0.905	13.66	134.7	13.37	1.688
40	16.45	35.52	252.5	410.6	0.914	12.88	131.0	13.51	1.686
45	18.69	40.72	260.8	411.4	0.937	11.12	121.8	13.91	1.680
50	21.16	45.94	269.5	411.8	0.964	9.589	112.8	14.36	1.674
55	23.88	51.19	278.5	411.8	0.995	8.247	104.1	14.90	1.666
60	26.87	56.47	287.9	411.2	1.032	7.059	95.44	15.55	1.657
65	30.16	61.80	298.0	409.8	1.077	5.994	86.71	16.37	1.647
70	33.78	67.19	308.9	407.1	1.136	5.019	77.64	17.49	1.633
75	37.81	72.69	321.5	402.3	1.222	4.089	67.59	19.17	1.614

ENTHALPIES du R407A à l'état surchauffé [kJ/kg]

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rosée [°C]	P abs [bar]	SURCHAUFFE [°C]																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
-95	0.020	341.9	345.0	348.1	351.3	354.5	357.7	361.0	364.4	367.8	371.2	374.6	378.1	381.7	385.3	388.9	392.6	396.3	400.1	403.9	407.7	411.6
-90	0.032	344.9	348.0	351.2	354.4	357.7	361.0	364.3	367.7	371.1	374.5	378.0	381.6	385.2	388.8	392.5	396.2	400.0	403.8	407.6	411.5	415.5
-85	0.050	347.8	351.1	354.3	357.6	360.9	364.2	367.6	371.1	374.5	378.0	381.6	385.2	388.8	392.5	396.2	400.0	403.8	407.6	411.5	415.4	419.4
-80	0.076	350.9	354.1	357.4	360.7	364.1	367.5	371.0	374.4	378.0	381.5	385.1	388.8	392.4	396.2	399.9	403.7	407.6	411.5	415.4	419.4	423.4
-75	0.111	353.9	357.2	360.5	363.9	367.3	370.8	374.3	377.8	381.4	385.0	388.7	392.4	396.1	399.9	403.7	407.5	411.4	415.3	419.3	423.3	427.4
-70	0.160	356.9	360.3	363.7	367.1	370.6	374.1	377.7	381.2	384.9	388.5	392.2	396.0	399.7	403.6	407.4	411.3	415.3	419.2	423.2	427.3	431.4
-65	0.224	359.9	363.4	366.8	370.3	373.9	377.4	381.0	384.7	388.3	392.1	395.8	399.6	403.4	407.3	411.2	415.1	419.1	423.1	427.2	431.3	435.4
-60	0.309	362.9	366.4	370.0	373.5	377.1	380.8	384.4	388.1	391.8	395.6	399.4	403.2	407.1	411.0	415.0	419.0	423.0	427.1	431.2	435.3	439.5
-55	0.418	365.9	369.5	373.1	376.7	380.4	384.1	387.8	391.5	395.3	399.1	403.0	406.9	410.8	414.8	418.8	422.8	426.9	431.0	435.2	439.4	443.6
-50	0.557	368.9	372.5	376.2	379.9	383.6	387.4	391.2	395.0	398.8	402.7	406.6	410.5	414.5	418.5	422.6	426.7	430.8	435.0	439.2	443.4	447.7
-45	0.731	371.8	375.6	379.3	383.1	386.9	390.7	394.5	398.4	402.3	406.2	410.2	414.2	418.2	422.3	426.4	430.5	434.7	438.9	443.2	447.5	451.8
-40	0.945	374.7	378.6	382.4	386.2	390.1	394.0	397.9	401.8	405.8	409.8	413.8	417.8	421.9	426.1	430.2	434.4	438.6	442.9	447.2	451.5	455.9
-35	1.206	377.6	381.5	385.5	389.4	393.3	397.3	401.2	405.2	409.2	413.3	417.4	421.5	425.6	429.8	434.0	438.3	442.6	446.9	451.2	455.6	460.0
-30	1.521	380.4	384.5	388.5	392.5	396.5	400.5	404.5	408.6	412.7	416.8	421.0	425.1	429.3	433.6	437.8	442.1	446.5	450.8	455.3	459.7	464.2
-25	1.898	383.2	387.3	391.4	395.5	399.6	403.7	407.8	412.0	416.1	420.3	424.5	428.7	433.0	437.3	441.6	446.0	450.4	454.8	459.3	463.8	468.3
-20	2.343	386.0	390.2	394.4	398.5	402.7	406.9	411.1	415.3	419.5	423.8	428.0	432.3	436.7	441.0	445.4	449.8	454.3	458.8	463.3	467.8	472.4
-15	2.866	388.6	392.9	397.2	401.5	405.8	410.0	414.3	418.6	422.9	427.2	431.6	435.9	440.3	444.7	449.2	453.7	458.2	462.7	467.3	471.9	476.5
-10	3.474	391.2	395.7	400.1	404.4	408.8	413.1	417.5	421.9	426.2	430.6	435.0	439.5	443.9	448.4	452.9	457.5	462.0	466.6	471.3	475.9	480.6
-5	4.177	393.7	398.3	402.8	407.3	411.7	416.2	420.6	425.1	429.5	434.0	438.5	443.0	447.5	452.1	456.6	461.2	465.9	470.5	475.2	479.9	484.7
0	4.983	396.1	400.9	405.5	410.1	414.6	419.2	423.7	428.2	432.8	437.3	441.9	446.5	451.1	455.7	460.3	465.0	469.7	474.4	479.1	483.9	488.7
5	5.904	398.5	403.3	408.1	412.8	417.4	422.1	426.7	431.3	436.0	440.6	445.2	449.9	454.6	459.3	464.0	468.7	473.5	478.3	483.1	487.9	492.8
10	6.948	400.7	405.7	410.6	415.4	420.2	424.9	429.7	434.4	439.1	443.8	448.6	453.3	458.0	462.8	467.6	472.4	477.2	482.1	486.9	491.8	496.8
15	8.128	402.8	407.9	413.0	417.9	422.9	427.7	432.6	437.4	442.2	447.0	451.8	456.6	461.5	466.3	471.2	476.0	480.9	485.9	490.8	495.8	500.7
20	9.452	404.7	410.1	415.3	420.4	425.4	430.4	435.4	440.3	445.2	450.1	455.0	459.9	464.8	469.8	474.7	479.7	484.6	489.6	494.6	499.6	504.7
25	10.93	406.5	412.1	417.4	422.7	427.9	433.0	438.1	443.1	448.2	453.2	458.2	463.2	468.2	473.2	478.2	483.2	488.3	493.3	498.4	503.5	508.6
30	12.59	408.1	413.9	419.5	424.9	430.2	435.5	440.7	445.9	451.0	456.1	461.2	466.3	471.4	476.5	481.6	486.7	491.8	497.0	502.1	507.3	512.5
35	14.42	409.5	415.5	421.3	427.0	432.5	437.9	443.2	448.5	453.8	459.0	464.2	469.4	474.6	479.8	485.0	490.2	495.4	500.6	505.8	511.0	516.3
40	16.45	410.6	417.0	423.0	428.9	434.6	440.2	445.7	451.1	456.5	461.8	467.1	472.4	477.7	483.0	488.3	493.6	498.8	504.1	509.4	514.7	520.1
45	18.69	411.4	418.2	424.5	430.6	436.5	442.3	448.0	453.5	459.1	464.7	470.0	475.4	480.8	486.1	491.5	496.9	502.3	507.6	513.0	518.4	523.8
50	21.16	411.8	419.1	425.8	432.2	438.3	444.3	450.1	455.9	461.5	467.1	472.7	478.2	483.7	489.2	494.7	500.1	505.6	511.1	516.5	522.0	527.5
55	23.88	411.8	419.6	426.8	433.5	439.9	446.1	452.1	458.0	463.9	469.6	475.3	481.0	486.6	492.2	497.8	503.3	508.9	514.4	520.0	525.5	531.1
60	26.87	411.2	419.8	427.5	434.6	441.3	447.7	454.0	460.1	466.1	472.0	477.8	483.6	489.4	495.1	500.8	506.4	512.1	517.7	523.4	529.0	534.7
65	30.16	409.8	419.5	427.8	435.3	442.4	449.1	455.6	461.9	468.1	474.2	480.2	486.1	492.0	497.8	503.6	509.4	515.2	520.9	526.7	532.4	538.1
70	33.78	407.1	418.5	427.6	435.7	443.2	450.3	457.0	463.6	470.0	476.3	482.4	488.5	494.5	500.5	506.4	512.3	518.2	524.0	529.9	535.7	541.5
75	37.81	402.3	416.6	426.9	435.7	443.7	451.1	458.2	465.0	471.6	478.1	484.4	490.7	496.9	503.0	509.0	515.1	521.1	527.0	533.0	538.9	544.8

ENTROPIES du R407A à l'état surchauffé [kJ/kg.K]

F. Benet d'après REFPROP <http://frederic.benet.free.fr>

Version du : 19/12/2018

rosée [°C]	P abs [bar]	SURCHAUFFE [°C]																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
-95	0.020	1.973	1.990	2.007	2.023	2.040	2.056	2.072	2.088	2.103	2.119	2.134	2.150	2.165	2.179	2.194	2.209	2.223	2.238	2.252	2.266	2.280
-90	0.032	1.946	1.963	1.980	1.996	2.012	2.028	2.044	2.060	2.076	2.091	2.106	2.121	2.136	2.151	2.166	2.180	2.195	2.209	2.223	2.237	2.251
-85	0.050	1.922	1.939	1.955	1.972	1.988	2.004	2.019	2.035	2.050	2.065	2.081	2.095	2.110	2.125	2.140	2.154	2.168	2.182	2.197	2.211	2.224
-80	0.076	1.900	1.917	1.933	1.949	1.965	1.981	1.997	2.012	2.027	2.042	2.057	2.072	2.087	2.101	2.116	2.130	2.144	2.159	2.173	2.186	2.200
-75	0.111	1.880	1.897	1.913	1.929	1.945	1.961	1.976	1.991	2.007	2.022	2.036	2.051	2.066	2.080	2.095	2.109	2.123	2.137	2.151	2.165	2.178
-70	0.160	1.862	1.879	1.895	1.911	1.927	1.942	1.957	1.973	1.988	2.003	2.017	2.032	2.046	2.061	2.075	2.089	2.103	2.117	2.131	2.145	2.158
-65	0.224	1.846	1.862	1.878	1.894	1.910	1.925	1.941	1.956	1.971	1.985	2.000	2.015	2.029	2.043	2.058	2.072	2.086	2.099	2.113	2.127	2.140
-60	0.309	1.831	1.847	1.863	1.879	1.895	1.910	1.925	1.940	1.955	1.970	1.985	1.999	2.013	2.028	2.042	2.056	2.069	2.083	2.097	2.110	2.124
-55	0.418	1.818	1.834	1.850	1.866	1.881	1.896	1.911	1.926	1.941	1.956	1.970	1.985	1.999	2.013	2.027	2.041	2.055	2.069	2.082	2.096	2.109
-50	0.557	1.805	1.821	1.837	1.853	1.869	1.884	1.899	1.914	1.929	1.943	1.958	1.972	1.986	2.000	2.014	2.028	2.042	2.055	2.069	2.082	2.096
-45	0.731	1.794	1.810	1.826	1.842	1.857	1.873	1.888	1.902	1.917	1.932	1.946	1.960	1.974	1.988	2.002	2.016	2.030	2.043	2.057	2.070	2.083
-40	0.945	1.784	1.800	1.816	1.832	1.847	1.862	1.877	1.892	1.907	1.921	1.935	1.950	1.964	1.978	1.991	2.005	2.019	2.032	2.046	2.059	2.072
-35	1.206	1.774	1.791	1.807	1.822	1.838	1.853	1.868	1.883	1.897	1.912	1.926	1.940	1.954	1.968	1.982	1.995	2.009	2.022	2.036	2.049	2.062
-30	1.521	1.766	1.782	1.798	1.814	1.829	1.844	1.859	1.874	1.889	1.903	1.917	1.931	1.945	1.959	1.973	1.987	2.000	2.014	2.027	2.040	2.053
-25	1.898	1.758	1.774	1.790	1.806	1.821	1.837	1.852	1.866	1.881	1.895	1.909	1.924	1.938	1.951	1.965	1.979	1.992	2.006	2.019	2.032	2.045
-20	2.343	1.751	1.767	1.783	1.799	1.814	1.830	1.845	1.859	1.874	1.888	1.902	1.916	1.930	1.944	1.958	1.971	1.985	1.998	2.011	2.025	2.038
-15	2.866	1.744	1.761	1.777	1.793	1.808	1.823	1.838	1.853	1.867	1.882	1.896	1.910	1.924	1.938	1.951	1.965	1.978	1.992	2.005	2.018	2.031
-10	3.474	1.738	1.754	1.771	1.787	1.802	1.817	1.832	1.847	1.862	1.876	1.890	1.904	1.918	1.932	1.946	1.959	1.973	1.986	1.999	2.012	2.025
-5	4.177	1.732	1.749	1.765	1.781	1.797	1.812	1.827	1.842	1.856	1.871	1.885	1.899	1.913	1.927	1.940	1.954	1.967	1.980	1.994	2.007	2.020
0	4.983	1.726	1.743	1.760	1.776	1.792	1.807	1.822	1.837	1.852	1.866	1.880	1.894	1.908	1.922	1.936	1.949	1.962	1.976	1.989	2.002	2.015
5	5.904	1.721	1.738	1.755	1.771	1.787	1.802	1.818	1.832	1.847	1.862	1.876	1.890	1.904	1.918	1.931	1.945	1.958	1.971	1.985	1.998	2.011
10	6.948	1.716	1.734	1.750	1.767	1.783	1.798	1.813	1.828	1.843	1.858	1.872	1.886	1.900	1.914	1.927	1.941	1.954	1.968	1.981	1.994	2.007
15	8.128	1.711	1.729	1.746	1.763	1.779	1.794	1.810	1.825	1.839	1.854	1.868	1.882	1.896	1.910	1.924	1.937	1.951	1.964	1.977	1.990	2.003
20	9.452	1.706	1.725	1.742	1.759	1.775	1.791	1.806	1.821	1.836	1.851	1.865	1.879	1.893	1.907	1.921	1.934	1.948	1.961	1.974	1.987	2.000
25	10.93	1.702	1.720	1.738	1.755	1.771	1.787	1.803	1.818	1.833	1.847	1.862	1.876	1.890	1.904	1.918	1.931	1.945	1.958	1.971	1.984	1.997
30	12.59	1.697	1.716	1.734	1.751	1.767	1.784	1.799	1.815	1.830	1.845	1.859	1.873	1.888	1.901	1.915	1.929	1.942	1.956	1.969	1.982	1.995
35	14.42	1.692	1.711	1.729	1.747	1.764	1.780	1.796	1.812	1.827	1.842	1.856	1.871	1.885	1.899	1.913	1.926	1.940	1.953	1.967	1.980	1.993
40	16.45	1.686	1.706	1.725	1.743	1.760	1.777	1.793	1.809	1.824	1.839	1.854	1.868	1.883	1.897	1.911	1.924	1.938	1.951	1.964	1.978	1.991
45	18.69	1.680	1.701	1.721	1.739	1.757	1.774	1.790	1.806	1.821	1.837	1.852	1.866	1.880	1.895	1.909	1.922	1.936	1.949	1.963	1.976	1.989
50	21.16	1.674	1.696	1.716	1.735	1.753	1.770	1.787	1.803	1.819	1.834	1.849	1.864	1.878	1.893	1.907	1.920	1.934	1.947	1.961	1.974	1.987
55	23.88	1.666	1.690	1.711	1.731	1.749	1.767	1.784	1.800	1.816	1.832	1.847	1.862	1.876	1.891	1.905	1.919	1.932	1.946	1.959	1.972	1.985
60	26.87	1.657	1.683	1.705	1.726	1.745	1.763	1.781	1.797	1.813	1.829	1.844	1.859	1.874	1.889	1.903	1.917	1.931	1.944	1.958	1.971	1.984
65	30.16	1.647	1.675	1.699	1.721	1.741	1.759	1.777	1.794	1.810	1.826	1.842	1.857	1.872	1.887	1.901	1.915	1.929	1.943	1.956	1.969	1.982
70	33.78	1.633	1.666	1.692	1.715	1.735	1.755	1.773	1.791	1.807	1.824	1.839	1.855	1.870	1.884	1.899	1.913	1.927	1.941	1.954	1.968	1.981
75	37.81	1.614	1.655	1.684	1.708	1.730	1.750	1.769	1.787	1.804	1.820	1.836	1.852	1.867	1.882	1.897	1.911	1.925	1.939	1.953	1.966	1.979

ENTHALPIES du R407A à l'état surchauffé [kJ/kg]

F. Benet d'après REFPROP <http://frederic.benet.free.fr>

Version du : 19/12/2018

θ rosée [°C]	P abs [bar]	SURCHAUFFE [°C]																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
-95	0.020	341.9	345.0	348.1	351.3	354.5	357.7	361.0	364.4	367.8	371.2	374.6	378.1	381.7	385.3	388.9	392.6	396.3	400.1	403.9	407.7	411.6
-90	0.032	344.9	348.0	351.2	354.4	357.7	361.0	364.3	367.7	371.1	374.6	378.1	381.7	385.2	388.9	392.6	396.3	400.0	403.8	407.7	411.6	415.5
-85	0.050	347.8	351.1	354.3	357.6	360.9	364.2	367.6	371.1	374.5	378.0	381.6	385.2	388.8	392.5	396.2	400.0	403.8	407.6	411.5	415.4	419.4
-80	0.076	350.9	354.1	357.4	360.7	364.1	367.5	371.0	374.4	378.0	381.5	385.1	388.8	392.4	396.2	399.9	403.7	407.6	411.5	415.4	419.4	423.4
-75	0.111	353.9	357.2	360.5	363.9	367.3	370.8	374.3	377.8	381.4	385.0	388.7	392.4	396.1	399.9	403.7	407.5	411.4	415.3	419.3	423.3	427.4
-70	0.160	356.9	360.3	363.7	367.1	370.6	374.1	377.7	381.2	384.9	388.5	392.2	396.0	399.7	403.6	407.4	411.3	415.3	419.2	423.2	427.3	431.4
-65	0.224	359.9	363.4	366.8	370.3	373.9	377.4	381.0	384.7	388.3	392.1	395.8	399.6	403.4	407.3	411.2	415.1	419.1	423.1	427.2	431.3	435.4
-60	0.309	362.9	366.4	370.0	373.5	377.1	380.8	384.4	388.1	391.8	395.6	399.4	403.2	407.1	411.0	415.0	419.0	423.0	427.1	431.2	435.3	439.5
-55	0.418	365.9	369.5	373.1	376.7	380.4	384.1	387.8	391.5	395.3	399.1	403.0	406.9	410.8	414.8	418.8	422.8	426.9	431.0	435.2	439.4	443.6
-50	0.557	368.9	372.5	376.2	379.9	383.6	387.4	391.2	395.0	398.8	402.7	406.6	410.5	414.5	418.5	422.6	426.7	430.8	435.0	439.2	443.4	447.7
-45	0.731	371.8	375.6	379.3	383.1	386.9	390.7	394.5	398.4	402.3	406.2	410.2	414.2	418.2	422.3	426.4	430.5	434.7	438.9	443.2	447.5	451.8
-40	0.945	374.7	378.6	382.4	386.2	390.1	394.0	397.9	401.8	405.8	409.8	413.8	417.8	421.9	426.1	430.2	434.4	438.6	442.9	447.2	451.5	455.9
-35	1.206	377.6	381.5	385.5	389.4	393.3	397.3	401.2	405.2	409.2	413.3	417.4	421.5	425.6	429.8	434.0	438.3	442.6	446.9	451.2	455.6	460.0
-30	1.521	380.4	384.5	388.5	392.5	396.5	400.5	404.5	408.6	412.7	416.8	421.0	425.1	429.3	433.6	437.8	442.1	446.5	450.8	455.3	459.7	464.2
-25	1.898	383.2	387.3	391.4	395.5	399.6	403.7	407.8	412.0	416.1	420.3	424.5	428.7	433.0	437.3	441.6	446.0	450.4	454.8	459.3	463.8	468.3
-20	2.343	386.0	390.2	394.4	398.5	402.7	406.9	411.1	415.3	419.5	423.8	428.0	432.3	436.7	441.0	445.4	449.8	454.3	458.8	463.3	467.8	472.4
-15	2.866	388.6	392.9	397.2	401.5	405.8	410.0	414.3	418.6	422.9	427.2	431.6	435.9	440.3	444.7	449.2	453.7	458.2	462.7	467.3	471.9	476.5
-10	3.474	391.2	395.7	400.1	404.4	408.8	413.1	417.5	421.9	426.2	430.6	435.0	439.5	443.9	448.4	452.9	457.5	462.0	466.6	471.3	475.9	480.6
-5	4.177	393.7	398.3	402.8	407.3	411.7	416.2	420.6	425.1	429.5	434.0	438.5	443.0	447.5	452.1	456.6	461.2	465.9	470.5	475.2	479.9	484.7
0	4.983	396.1	400.9	405.5	410.1	414.6	419.2	423.7	428.2	432.8	437.3	441.9	446.5	451.1	455.7	460.3	465.0	469.7	474.4	479.1	483.9	488.7
5	5.904	398.5	403.3	408.1	412.8	417.4	422.1	426.7	431.3	436.0	440.6	445.2	449.9	454.6	459.3	464.0	468.7	473.5	478.3	483.1	487.9	492.8
10	6.948	400.7	405.7	410.6	415.4	420.2	424.9	429.7	434.4	439.1	443.8	448.6	453.3	458.0	462.8	467.6	472.4	477.2	482.1	486.9	491.8	496.8
15	8.128	402.8	407.9	413.0	417.9	422.9	427.7	432.6	437.4	442.2	447.0	451.8	456.6	461.5	466.3	471.2	476.0	480.9	485.9	490.8	495.8	500.7
20	9.452	404.7	410.1	415.3	420.4	425.4	430.4	435.4	440.3	445.2	450.1	455.0	459.9	464.8	469.8	474.7	479.7	484.6	489.6	494.6	499.6	504.7
25	10.93	406.5	412.1	417.4	422.7	427.9	433.0	438.1	443.1	448.2	453.2	458.2	463.2	468.2	473.2	478.2	483.2	488.3	493.3	498.4	503.5	508.6
30	12.59	408.1	413.9	419.5	424.9	430.2	435.5	440.7	445.9	451.0	456.1	461.2	466.3	471.4	476.5	481.6	486.7	491.8	497.0	502.1	507.3	512.5
35	14.42	409.5	415.5	421.3	427.0	432.5	437.9	443.2	448.5	453.8	459.0	464.2	469.4	474.6	479.8	485.0	490.2	495.4	500.6	505.8	511.0	516.3
40	16.45	410.6	417.0	423.0	428.9	434.6	440.2	445.7	451.1	456.5	461.8	467.1	472.4	477.7	483.0	488.3	493.6	498.8	504.1	509.4	514.7	520.1
45	18.69	411.4	418.2	424.5	430.6	436.5	442.3	448.0	453.5	459.1	464.5	470.0	475.4	480.8	486.1	491.5	496.9	502.3	507.6	513.0	518.4	523.8
50	21.16	411.8	419.1	425.8	432.2	438.3	444.3	450.1	455.9	461.5	467.1	472.7	478.2	483.7	489.2	494.7	500.1	505.6	511.1	516.5	522.0	527.5
55	23.88	411.8	419.6	426.8	433.5	439.9	446.1	452.1	458.0	463.9	469.6	475.3	481.0	486.6	492.2	497.8	503.3	508.9	514.4	520.0	525.5	531.1
60	26.87	411.2	419.8	427.5	434.6	441.3	447.7	454.0	460.1	466.1	472.0	477.8	483.6	489.4	495.1	500.8	506.4	512.1	517.7	523.4	529.0	534.7
65	30.16	409.8	419.5	427.8	435.3	442.4	449.1	455.6	461.9	468.1	474.2	480.2	486.1	492.0	497.8	503.6	509.4	515.2	520.9	526.7	532.4	538.1
70	33.78	407.1	418.5	427.6	435.7	443.2	450.3	457.0	463.6	470.0	476.3	482.4	488.5	494.5	500.5	506.4	512.3	518.2	524.0	529.9	535.7	541.5
75	37.81	402.3	416.6	426.9	435.7	443.7	451.1	458.2	465.0	471.6	478.1	484.4	490.7	496.9	503.0	509.0	515.1	521.1	527.0	533.0	538.9	544.8

ENTROPIES du R407A à l'état surchauffé [kJ/kg.K]

F. Benet d'après REFPROP <http://frederic.benet.free.fr>

Version du : 19/12/2018

θ rosée [°C]	P abs [bar]	SURCHAUFFE [°C]																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
-95	0.020	1.973	1.990	2.007	2.023	2.040	2.056	2.072	2.088	2.103	2.119	2.134	2.150	2.165	2.179	2.194	2.209	2.223	2.238	2.252	2.266	2.280
-90	0.032	1.946	1.963	1.980	1.996	2.012	2.028	2.044	2.060	2.076	2.091	2.106	2.121	2.136	2.151	2.166	2.180	2.195	2.209	2.223	2.237	2.251
-85	0.050	1.922	1.939	1.955	1.972	1.988	2.004	2.019	2.035	2.050	2.065	2.081	2.095	2.110	2.125	2.140	2.154	2.168	2.182	2.197	2.211	2.224
-80	0.076	1.900	1.917	1.933	1.949	1.965	1.981	1.997	2.012	2.027	2.042	2.057	2.072	2.087	2.101	2.116	2.130	2.144	2.159	2.173	2.186	2.200
-75	0.111	1.880	1.897	1.913	1.929	1.945	1.961	1.976	1.991	2.007	2.022	2.036	2.051	2.066	2.080	2.095	2.109	2.123	2.137	2.151	2.165	2.178
-70	0.160	1.862	1.879	1.895	1.911	1.927	1.942	1.957	1.973	1.988	2.003	2.017	2.032	2.046	2.061	2.075	2.089	2.103	2.117	2.131	2.145	2.158
-65	0.224	1.846	1.862	1.878	1.894	1.910	1.925	1.941	1.956	1.971	1.985	2.000	2.015	2.029	2.043	2.058	2.072	2.086	2.099	2.113	2.127	2.140
-60	0.309	1.831	1.847	1.863	1.879	1.895	1.910	1.925	1.940	1.955	1.970	1.985	1.999	2.013	2.028	2.042	2.056	2.069	2.083	2.097	2.110	2.124
-55	0.418	1.818	1.834	1.850	1.866	1.881	1.896	1.911	1.926	1.941	1.956	1.970	1.985	1.999	2.013	2.027	2.041	2.055	2.069	2.082	2.096	2.109
-50	0.557	1.805	1.821	1.837	1.853	1.869	1.884	1.899	1.914	1.929	1.943	1.958	1.972	1.986	2.000	2.014	2.028	2.042	2.055	2.069	2.082	2.096
-45	0.731	1.794	1.810	1.826	1.842	1.857	1.873	1.888	1.902	1.917	1.932	1.946	1.960	1.974	1.988	2.002	2.016	2.030	2.043	2.057	2.070	2.083
-40	0.945	1.784	1.800	1.816	1.832	1.847	1.862	1.877	1.892	1.907	1.921	1.935	1.950	1.964	1.978	1.991	2.005	2.019	2.032	2.046	2.059	2.072
-35	1.206	1.774	1.791	1.807	1.822	1.838	1.853	1.868	1.883	1.897	1.912	1.926	1.940	1.954	1.968	1.982	1.995	2.009	2.022	2.036	2.049	2.062
-30	1.521	1.766	1.782	1.798	1.814	1.829	1.844	1.859	1.874	1.889	1.903	1.917	1.931	1.945	1.959	1.973	1.987	2.000	2.014	2.027	2.040	2.053
-25	1.898	1.758	1.774	1.790	1.806	1.821	1.837	1.852	1.866	1.881	1.895	1.909	1.924	1.938	1.951	1.965	1.979	1.992	2.006	2.019	2.032	2.045
-20	2.343	1.751	1.767	1.783	1.799	1.814	1.830	1.845	1.859	1.874	1.888	1.902	1.916	1.930	1.944	1.958	1.971	1.985	1.998	2.011	2.025	2.038
-15	2.866	1.744	1.761	1.777	1.793	1.808	1.823	1.838	1.853	1.867	1.882	1.896	1.910	1.924	1.938	1.951	1.965	1.978	1.992	2.005	2.018	2.031
-10	3.474	1.738	1.754	1.771	1.787	1.802	1.817	1.832	1.847	1.862	1.876	1.890	1.904	1.918	1.932	1.946	1.959	1.973	1.986	1.999	2.012	2.025
-5	4.177	1.732	1.749	1.765	1.781	1.797	1.812	1.827	1.842	1.856	1.871	1.885	1.899	1.913	1.927	1.940	1.954	1.967	1.980	1.994	2.007	2.020
0	4.983	1.726	1.743	1.760	1.776	1.792	1.807	1.822	1.837	1.852	1.866	1.880	1.894	1.908	1.922	1.936	1.949	1.962	1.976	1.989	2.002	2.015
5	5.904	1.721	1.738	1.755	1.771	1.787	1.802	1.818	1.832	1.847	1.862	1.876	1.890	1.904	1.918	1.931	1.945	1.958	1.971	1.985	1.998	2.011
10	6.948	1.716	1.734	1.750	1.767	1.783	1.798	1.813	1.828	1.843	1.858	1.872	1.886	1.900	1.914	1.927	1.941	1.954	1.968	1.981	1.994	2.007
15	8.128	1.711	1.729	1.746	1.763	1.779	1.794	1.810	1.825	1.839	1.854	1.868	1.882	1.896	1.910	1.924	1.937	1.951	1.964	1.977	1.990	2.003
20	9.452	1.706	1.725	1.742	1.759	1.775	1.791	1.806	1.821	1.836	1.851	1.865	1.879	1.893	1.907	1.921	1.934	1.948	1.961	1.974	1.987	2.000
25	10.93	1.702	1.720	1.738	1.755	1.771	1.787	1.803	1.818	1.833	1.847	1.862	1.876	1.890	1.904	1.918	1.931	1.945	1.958	1.971	1.984	1.997
30	12.59	1.697	1.716	1.734	1.751	1.767	1.784	1.799	1.815	1.830	1.845	1.859	1.873	1.888	1.901	1.915	1.929	1.942	1.956	1.969	1.982	1.995
35	14.42	1.692	1.711	1.729	1.747	1.764	1.780	1.796	1.812	1.827	1.842	1.856	1.871	1.885	1.899	1.913	1.926	1.940	1.953	1.967	1.980	1.993
40	16.45	1.686	1.706	1.725	1.743	1.760	1.777	1.793	1.809	1.824	1.839	1.854	1.868	1.883	1.897	1.911	1.924	1.938	1.951	1.964	1.978	1.991
45	18.69	1.680	1.701	1.721	1.739	1.757	1.774	1.790	1.806	1.821	1.837	1.852	1.866	1.880	1.895	1.909	1.922	1.936	1.949	1.963	1.976	1.989
50	21.16	1.674	1.696	1.716	1.735	1.753	1.770	1.787	1.803	1.819	1.834	1.849	1.864	1.878	1.893	1.907	1.920	1.934	1.947	1.961	1.974	1.987
55	23.88	1.666	1.690	1.711	1.731	1.749	1.767	1.784	1.800	1.816	1.832	1.847	1.862	1.876	1.891	1.905	1.919	1.932	1.946	1.959	1.972	1.985
60	26.87	1.657	1.683	1.705	1.726	1.745	1.763	1.781	1.797	1.813	1.829	1.844	1.859	1.874	1.889	1.903	1.917	1.931	1.944	1.958	1.971	1.984
65	30.16	1.647	1.675	1.699	1.721	1.741	1.759	1.777	1.794	1.810	1.826	1.842	1.857	1.872	1.887	1.901	1.915	1.929	1.943	1.956	1.969	1.982
70	33.78	1.633	1.666	1.692	1.715	1.735	1.755	1.773	1.791	1.807	1.824	1.839	1.855	1.870	1.884	1.899	1.913	1.927	1.941	1.954	1.968	1.981
75	37.81	1.614	1.655	1.684	1.708	1.730	1.750	1.769	1.787	1.804	1.820	1.836	1.852	1.867	1.882	1.897	1.911	1.925	1.939	1.953	1.966	1.979

VOLUMES SPECIFIQUES du R407A à l'état surchauffé [dm³/kg]

F. Benet d'après REFPROP <http://frederic.benet.free.fr>

Version du : 19/12/2018

θ rosée [°C]	P abs [bar]	SURCHAUFFE [°C]																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
-95	0.020	8093	8323	8552	8782	9011	9240	9469	9698	9926	10155	10383	10611	10840	11068	11296	11524	11752	11980	12209	12437	12665
-90	0.032	5199	5344	5488	5632	5776	5919	6063	6206	6349	6492	6635	6778	6921	7064	7207	7350	7493	7636	7778	7921	8064
-85	0.050	3441	3535	3628	3721	3814	3907	4000	4092	4185	4278	4370	4462	4555	4647	4739	4832	4924	5016	5108	5200	5293
-80	0.076	2339	2402	2464	2526	2588	2650	2712	2773	2835	2896	2958	3019	3081	3142	3203	3265	3326	3387	3448	3509	3571
-75	0.111	1630	1672	1715	1758	1800	1842	1884	1926	1968	2010	2052	2094	2136	2178	2220	2262	2303	2345	2387	2428	2470
-70	0.160	1161	1191	1221	1250	1280	1310	1339	1369	1398	1427	1457	1486	1515	1544	1574	1603	1632	1661	1690	1719	1748
-65	0.224	843.7	865.2	886.7	908.0	929.3	950.5	971.6	992.6	1014	1035	1056	1076	1097	1118	1139	1160	1181	1201	1222	1243	1264
-60	0.309	624.6	640.4	656.1	671.7	687.3	702.8	718.2	733.5	748.9	764.2	779.4	794.7	809.9	825.1	840.3	855.4	870.6	885.7	900.8	915.9	931.0
-55	0.418	470.2	482.0	493.8	505.4	517.0	528.5	540.0	551.5	562.9	574.2	585.6	596.9	608.2	619.5	630.7	642.0	653.2	664.4	675.6	686.8	698.0
-50	0.557	359.4	368.5	377.4	386.2	395.0	403.8	412.5	421.1	429.8	438.4	446.9	455.5	464.0	472.5	481.0	489.5	498.0	506.4	514.9	523.3	531.7
-45	0.731	278.6	285.6	292.5	299.4	306.2	312.9	319.6	326.3	332.9	339.5	346.1	352.7	359.2	365.7	372.3	378.8	385.3	391.7	398.2	404.7	411.1
-40	0.945	218.8	224.3	229.7	235.1	240.4	245.7	250.9	256.1	261.3	266.5	271.6	276.7	281.8	286.9	292.0	297.0	302.1	307.1	312.2	317.2	322.2
-35	1.206	173.8	178.2	182.5	186.8	191.0	195.2	199.4	203.5	207.6	211.7	215.7	219.8	223.8	227.8	231.8	235.8	239.8	243.8	247.8	251.7	255.7
-30	1.521	139.5	143.1	146.6	150.0	153.4	156.8	160.2	163.5	166.8	170.0	173.3	176.5	179.8	183.0	186.2	189.4	192.6	195.7	198.9	202.1	205.2
-25	1.898	113.1	116.0	118.9	121.7	124.5	127.2	130.0	132.7	135.3	138.0	140.6	143.3	145.9	148.5	151.1	153.7	156.2	158.8	161.4	163.9	166.5
-20	2.343	92.51	94.94	97.32	99.65	101.9	104.2	106.5	108.7	110.9	113.1	115.2	117.4	119.5	121.7	123.8	125.9	128.0	130.1	132.2	134.3	136.3
-15	2.866	76.28	78.32	80.31	82.27	84.19	86.08	87.95	89.79	91.62	93.44	95.24	97.02	98.80	100.6	102.3	104.1	105.8	107.5	109.3	111.0	112.7
-10	3.474	63.36	65.09	66.78	68.44	70.06	71.65	73.22	74.78	76.31	77.84	79.34	80.84	82.32	83.80	85.27	86.72	88.17	89.62	91.05	92.49	93.91
-5	4.177	52.98	54.47	55.92	57.33	58.71	60.07	61.41	62.73	64.03	65.32	66.59	67.86	69.11	70.36	71.59	72.82	74.04	75.26	76.47	77.67	78.87
0	4.983	44.56	45.86	47.11	48.33	49.52	50.69	51.84	52.97	54.08	55.18	56.27	57.35	58.42	59.48	60.53	61.58	62.61	63.65	64.67	65.69	66.71
5	5.904	37.69	38.82	39.92	40.98	42.01	43.03	44.02	45.00	45.96	46.91	47.85	48.78	49.70	50.61	51.51	52.40	53.29	54.18	55.05	55.93	56.80
10	6.948	32.02	33.03	33.99	34.93	35.84	36.72	37.59	38.44	39.28	40.11	40.92	41.73	42.52	43.31	44.09	44.86	45.63	46.39	47.15	47.90	48.65
15	8.128	27.33	28.23	29.08	29.91	30.72	31.50	32.26	33.01	33.75	34.47	35.18	35.89	36.58	37.27	37.95	38.62	39.29	39.95	40.61	41.26	41.91
20	9.452	23.40	24.21	24.98	25.73	26.44	27.14	27.82	28.48	29.13	29.77	30.40	31.02	31.63	32.23	32.83	33.42	34.00	34.58	35.15	35.72	36.29
25	10.93	20.10	20.84	21.54	22.21	22.85	23.48	24.08	24.68	25.25	25.82	26.38	26.93	27.47	28.00	28.53	29.05	29.56	30.07	30.58	31.08	31.58
30	12.59	17.31	17.99	18.63	19.24	19.82	20.38	20.93	21.46	21.98	22.49	22.99	23.47	23.96	24.43	24.90	25.36	25.82	26.27	26.72	27.16	27.60
35	14.42	14.93	15.56	16.15	16.71	17.24	17.75	18.25	18.73	19.20	19.66	20.10	20.54	20.97	21.40	21.82	22.23	22.64	23.04	23.44	23.83	24.22
40	16.45	12.88	13.48	14.03	14.55	15.04	15.51	15.96	16.40	16.82	17.24	17.64	18.04	18.43	18.81	19.18	19.55	19.92	20.28	20.64	20.99	21.34
45	18.69	11.12	11.69	12.21	12.69	13.15	13.58	13.99	14.39	14.78	15.16	15.53	15.89	16.24	16.58	16.92	17.26	17.59	17.91	18.23	18.55	18.86
50	21.16	9.589	10.14	10.63	11.09	11.51	11.91	12.30	12.67	13.02	13.37	13.70	14.03	14.35	14.67	14.97	15.28	15.58	15.87	16.16	16.45	16.73
55	23.88	8.247	8.787	9.261	9.693	10.09	10.47	10.83	11.17	11.50	11.82	12.12	12.42	12.72	13.00	13.28	13.56	13.83	14.10	14.36	14.62	14.88
60	26.87	7.059	7.601	8.063	8.476	8.855	9.209	9.543	9.862	10.17	10.46	10.75	11.02	11.29	11.55	11.81	12.06	12.31	12.56	12.80	13.03	13.26
65	30.16	5.994	6.552	7.008	7.408	7.770	8.105	8.419	8.717	9.002	9.275	9.539	9.795	10.04	10.29	10.52	10.75	10.98	11.20	11.42	11.64	11.85
70	33.78	5.019	5.615	6.073	6.463	6.812	7.131	7.428	7.708	7.974	8.229	8.475	8.712	8.942	9.165	9.383	9.596	9.805	10.01	10.21	10.41	10.60
75	37.81	4.089	4.766	5.234	5.620	5.957	6.262	6.545	6.809	7.059	7.298	7.526	7.747	7.960	8.167	8.369	8.565	8.757	8.946	9.130	9.312	9.490

VISCOSITES du R407A à l'état surchauffé [μPa.s]

F. Benet d'après REFPROP <http://frederic.benet.free.fr>

Version du : 19/12/2018

θ rosée [°C]	P abs [bar]	SURCHAUFFE [°C]																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
-95	0.020	7.485	7.696	7.907	8.118	8.329	8.540	8.751	8.963	9.174	9.385	9.596	9.807	10.02	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69
-90	0.032	7.696	7.907	8.118	8.329	8.540	8.751	8.963	9.174	9.385	9.596	9.807	10.02	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90
-85	0.050	7.907	8.118	8.329	8.540	8.751	8.963	9.174	9.385	9.596	9.807	10.02	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11
-80	0.076	8.118	8.329	8.540	8.751	8.963	9.174	9.385	9.596	9.807	10.02	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31
-75	0.111	8.329	8.540	8.751	8.963	9.174	9.385	9.596	9.807	10.02	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52
-70	0.160	8.540	8.751	8.963	9.174	9.385	9.596	9.807	10.02	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.72
-65	0.224	8.751	8.963	9.174	9.385	9.596	9.807	10.02	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.72	12.93
-60	0.309	8.963	9.174	9.385	9.596	9.807	10.02	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.72	12.93	13.13
-55	0.418	9.174	9.385	9.596	9.807	10.02	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.72	12.93	13.13	13.34
-50	0.557	9.385	9.596	9.807	10.02	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.72	12.93	13.13	13.34	13.54
-45	0.731	9.596	9.807	10.02	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.72	12.93	13.13	13.34	13.54	13.75
-40	0.945	9.807	10.02	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.72	12.93	13.14	13.34	13.54	13.75	13.95
-35	1.206	10.02	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.72	12.93	13.14	13.34	13.54	13.75	13.95	14.16
-30	1.521	10.23	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.72	12.93	13.14	13.34	13.55	13.75	13.95	14.16	14.36
-25	1.898	10.44	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.72	12.93	13.14	13.34	13.55	13.75	13.96	14.16	14.37	14.57
-20	2.343	10.65	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.72	12.93	13.14	13.34	13.55	13.75	13.96	14.17	14.37	14.58	14.78
-15	2.866	10.86	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.72	12.93	13.14	13.34	13.55	13.75	13.96	14.17	14.38	14.58	14.79	14.99
-10	3.474	11.07	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.73	12.93	13.14	13.35	13.55	13.76	13.97	14.18	14.38	14.59	14.79	15.00	15.20
-5	4.177	11.27	11.48	11.69	11.90	12.11	12.31	12.52	12.73	12.93	13.14	13.35	13.55	13.76	13.97	14.18	14.39	14.60	14.80	15.01	15.21	15.42
0	4.983	11.48	11.69	11.90	12.11	12.31	12.52	12.73	12.94	13.14	13.35	13.56	13.77	13.98	14.19	14.40	14.61	14.82	15.02	15.23	15.43	15.63
5	5.904	11.69	11.90	12.11	12.31	12.52	12.73	12.94	13.15	13.36	13.57	13.78	14.00	14.21	14.42	14.63	14.83	15.04	15.25	15.45	15.65	15.86
10	6.948	11.90	12.11	12.32	12.53	12.74	12.95	13.16	13.36	13.58	13.80	14.01	14.23	14.44	14.65	14.86	15.06	15.27	15.47	15.68	15.88	16.08
15	8.128	12.11	12.33	12.54	12.75	12.96	13.16	13.38	13.60	13.82	14.04	14.25	14.46	14.67	14.88	15.09	15.30	15.50	15.71	15.91	16.11	16.31
20	9.452	12.34	12.55	12.76	12.97	13.18	13.41	13.63	13.85	14.07	14.28	14.50	14.71	14.92	15.13	15.33	15.54	15.74	15.95	16.15	16.35	16.55
25	10.93	12.57	12.78	13.00	13.23	13.45	13.67	13.89	14.11	14.32	14.54	14.75	14.96	15.17	15.38	15.58	15.79	15.99	16.19	16.40	16.60	16.80
30	12.59	12.83	13.06	13.29	13.51	13.73	13.95	14.16	14.38	14.59	14.80	15.01	15.22	15.43	15.64	15.84	16.05	16.25	16.45	16.65	16.85	17.05
35	14.42	13.16	13.38	13.59	13.81	14.03	14.24	14.45	14.66	14.88	15.08	15.29	15.50	15.71	15.91	16.11	16.32	16.52	16.72	16.92	17.12	17.32
40	16.45	13.51	13.72	13.93	14.13	14.34	14.55	14.76	14.97	15.18	15.38	15.59	15.79	16.00	16.20	16.40	16.60	16.80	17.00	17.20	17.40	17.59
45	18.69	13.91	14.10	14.29	14.49	14.69	14.89	15.09	15.29	15.50	15.70	15.90	16.10	16.30	16.50	16.70	16.90	17.10	17.30	17.49	17.69	17.88
50	21.16	14.36	14.52	14.70	14.88	15.07	15.26	15.45	15.65	15.84	16.04	16.24	16.43	16.63	16.83	17.02	17.22	17.41	17.61	17.80	18.00	18.19
55	23.88	14.90	15.01	15.16	15.32	15.49	15.66	15.85	16.03	16.22	16.41	16.60	16.79	16.98	17.17	17.37	17.56	17.75	17.94	18.13	18.32	18.51
60	26.87	15.55	15.59	15.69	15.81	15.96	16.12	16.29	16.46	16.63	16.81	17.00	17.18	17.36	17.55	17.74	17.92	18.11	18.30	18.48	18.67	18.86
65	30.16	16.37	16.29	16.31	16.39	16.50	16.63	16.78	16.93	17.09	17.26	17.43	17.60	17.78	17.96	18.14	18.32	18.50	18.68	18.86	19.04	19.23
70	33.78	17.49	17.16	17.07	17.07	17.13	17.22	17.34	17.47	17.61	17.76	17.91	18.07	18.24	18.41	18.58	18.75	18.92	19.10	19.27	19.45	19.63
75	37.81	19.17	18.31	18.01	17.90	17.88	17.92	17.99	18.08	18.20	18.32	18.46	18.60	18.75	18.91	19.06	19.23	19.39	19.56	19.72	19.89	20.06