

**Table Thermodynamique R 427A**

	Liquide	Vapeur	Liquide	Vapeur	Liquide	Vapeur	Liquide	Vapeur
Temperature	Pression	Pression	Densité	Densité	Enthalpie	Enthalpie	Entropie	Entropie
(°C)	(bar abs)	(bar abs)	(Kg/M <sup>3</sup> )	(Kg/M <sup>3</sup> )	(KJ/Kg)	(KJ/Kg)	(KJ/Kg-K)	(KJ/Kg-K)
-110	0.0085858	0.0033969	1566.3	0.022667	56.548	334.18	0.33168	2.0774
-109	0.009537	0.0038315	1563.3	0.025413	57.864	334.76	0.33972	2.0698
-108	0.010578	0.0043142	1560.3	0.028443	59.177	335.34	0.34769	2.0625
-107	0.011716	0.0048491	1557.3	0.03178	60.485	335.92	0.35559	2.0552
-106	0.012957	0.0054411	1554.3	0.03545	61.79	336.51	0.36342	2.0482
-105	0.014311	0.006095	1551.3	0.039478	63.091	337.09	0.37118	2.0412
-104	0.015784	0.0068164	1548.4	0.043894	64.39	337.68	0.37888	2.0344
-103	0.017385	0.0076109	1545.4	0.048727	65.685	338.27	0.38651	2.0278
-102	0.019124	0.0084846	1542.5	0.054009	66.978	338.85	0.39409	2.0213
-101	0.02101	0.009444	1539.5	0.059774	68.268	339.44	0.4016	2.0149
-100	0.023052	0.010496	1536.6	0.066057	69.555	340.04	0.40906	2.0086
-99	0.025262	0.011648	1533.6	0.072895	70.841	340.63	0.41646	2.0025
-98	0.02765	0.012907	1530.7	0.080326	72.124	341.22	0.42381	1.9965
-97	0.030228	0.014282	1527.8	0.088392	73.405	341.82	0.4311	1.9906
-96	0.033007	0.015781	1524.9	0.097136	74.685	342.42	0.43834	1.9848
-95	0.036	0.017414	1522	0.1066	75.963	343.01	0.44554	1.9791
-94	0.039221	0.01919	1519.1	0.11684	77.239	343.61	0.45268	1.9736
-93	0.042683	0.021119	1516.1	0.12789	78.514	344.21	0.45978	1.9681
-92	0.046399	0.023211	1513.2	0.13982	79.788	344.81	0.46683	1.9628
-91	0.050385	0.025479	1510.3	0.15266	81.061	345.42	0.47383	1.9576
-90	0.054657	0.027933	1507.4	0.16649	82.332	346.02	0.48079	1.9524
-89	0.059229	0.030585	1504.5	0.18135	83.603	346.62	0.48771	1.9474
-88	0.064119	0.033449	1501.6	0.19731	84.873	347.23	0.49458	1.9425
-87	0.069345	0.036539	1498.8	0.21443	86.142	347.84	0.50142	1.9377
-86	0.074922	0.039867	1495.9	0.23277	87.41	348.44	0.50821	1.933
-85	0.080871	0.043448	1493	0.25241	88.678	349.05	0.51497	1.9283
-84	0.087211	0.047299	1490.1	0.2734	89.945	349.66	0.52168	1.9238
-83	0.09396	0.051434	1487.2	0.29583	91.212	350.27	0.52836	1.9193
-82	0.10114	0.05587	1484.3	0.31977	92.479	350.88	0.535	1.915
-81	0.10877	0.060624	1481.4	0.34529	93.745	351.49	0.54161	1.9107
-80	0.11687	0.065715	1478.5	0.37248	95.012	352.1	0.54817	1.9065
-79	0.12547	0.07116	1475.6	0.40141	96.278	352.71	0.55471	1.9024
-78	0.13459	0.076979	1472.7	0.43218	97.544	353.32	0.56121	1.8984
-77	0.14425	0.083192	1469.8	0.46486	98.81	353.94	0.56768	1.8944
-76	0.15448	0.089819	1466.9	0.49955	100.08	354.55	0.57411	1.8905
-75	0.1653	0.096882	1464	0.53634	101.34	355.16	0.58052	1.8867
-74	0.17674	0.1044	1461.1	0.57533	102.61	355.78	0.58689	1.883
-73	0.18882	0.1124	1458.2	0.61662	103.88	356.39	0.59323	1.8794
-72	0.20158	0.12091	1455.3	0.66029	105.14	357.01	0.59954	1.8758
-71	0.21503	0.12994	1452.4	0.70647	106.41	357.62	0.60582	1.8723
-70	0.22921	0.13953	1449.5	0.75524	107.68	358.24	0.61207	1.8688
-69	0.24415	0.14969	1446.6	0.80673	108.95	358.85	0.6183	1.8655
-68	0.25988	0.16046	1443.6	0.86104	110.22	359.47	0.62449	1.8622
-67	0.27642	0.17186	1440.7	0.91829	111.49	360.08	0.63066	1.8589
-66	0.29382	0.18393	1437.8	0.97858	112.76	360.7	0.6368	1.8557

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(°C)	(bar abs)	(bar abs)	(Kg/M <sup>3</sup> )	(Kg/M <sup>3</sup> )	(KJ/Kg)	(KJ/Kg)	(KJ/Kg-K)	(KJ/Kg-K)
-65	0.3121	0.19668	1434.9	1.0421	114.03	361.31	0.64292	1.8526
-64	0.33129	0.21015	1431.9	1.1088	115.3	361.93	0.64901	1.8496
-63	0.35143	0.22437	1429	1.179	116.57	362.54	0.65507	1.8466
-62	0.37256	0.23937	1426.1	1.2527	117.84	363.16	0.66111	1.8436
-61	0.3947	0.25518	1423.1	1.3301	119.12	363.77	0.66712	1.8407
-60	0.4179	0.27184	1420.2	1.4113	120.39	364.39	0.67311	1.8379
-59	0.44219	0.28937	1417.2	1.4965	121.67	365	0.67907	1.8351
-58	0.4676	0.30782	1414.2	1.5857	122.95	365.61	0.68501	1.8324
-57	0.49418	0.32721	1411.3	1.6792	124.22	366.23	0.69093	1.8298
-56	0.52196	0.34759	1408.3	1.777	125.5	366.84	0.69682	1.8271
-55	0.55098	0.36898	1405.3	1.8794	126.78	367.45	0.7027	1.8246
-54	0.58129	0.39143	1402.4	1.9864	128.06	368.07	0.70855	1.8221
-53	0.61292	0.41498	1399.4	2.0982	129.35	368.68	0.71438	1.8196
-52	0.64591	0.43966	1396.4	2.215	130.63	369.29	0.72018	1.8172
-51	0.68031	0.46551	1393.4	2.337	131.92	369.9	0.72597	1.8148
-50	0.71616	0.49258	1390.4	2.4642	133.2	370.51	0.73174	1.8125
-49	0.75349	0.5209	1387.3	2.5969	134.49	371.11	0.73748	1.8102
-48	0.79236	0.55052	1384.3	2.7352	135.78	371.72	0.74321	1.808
-47	0.83282	0.58147	1381.3	2.8794	137.07	372.33	0.74891	1.8058
-46	0.87489	0.61381	1378.3	3.0294	138.36	372.94	0.7546	1.8036
-45	0.91864	0.64757	1375.2	3.1857	139.66	373.54	0.76027	1.8015
-44	0.9641	0.6828	1372.2	3.3482	140.95	374.14	0.76592	1.7994
-43	1.0113	0.71955	1369.1	3.5173	142.25	374.75	0.77155	1.7974
-42	1.0604	0.75787	1366.1	3.6931	143.55	375.35	0.77716	1.7954
-41	1.1113	0.79779	1363	3.8758	144.84	375.95	0.78276	1.7934
-40	1.1641	0.83937	1359.9	4.0655	146.15	376.55	0.78833	1.7915
-39	1.2188	0.88266	1356.8	4.2625	147.45	377.15	0.79389	1.7896
-38	1.2756	0.9277	1353.7	4.467	148.75	377.74	0.79944	1.7877
-37	1.3344	0.97454	1350.6	4.6792	150.06	378.34	0.80496	1.7859
-36	1.3953	1.0232	1347.5	4.8992	151.37	378.93	0.81047	1.7841
-35	1.4584	1.0739	1344.4	5.1274	152.68	379.53	0.81597	1.7824
-34	1.5237	1.1264	1341.2	5.3639	153.99	380.12	0.82144	1.7806
-33	1.5913	1.181	1338.1	5.6088	155.31	380.71	0.82691	1.779
-32	1.6611	1.2376	1334.9	5.8626	156.62	381.29	0.83235	1.7773
-31	1.7334	1.2964	1331.8	6.1253	157.94	381.88	0.83779	1.7757
-30	1.8081	1.3573	1328.6	6.3972	159.26	382.46	0.8432	1.7741
-29	1.8852	1.4205	1325.4	6.6785	160.58	383.05	0.8486	1.7725
-28	1.9649	1.4859	1322.2	6.9695	161.91	383.63	0.85399	1.7709
-27	2.0472	1.5537	1319	7.2705	163.23	384.21	0.85937	1.7694
-26	2.1321	1.6239	1315.8	7.5816	164.56	384.78	0.86473	1.7679
-25	2.2197	1.6966	1312.6	7.9031	165.89	385.36	0.87007	1.7665
-24	2.3101	1.7717	1309.3	8.2352	167.22	385.93	0.87541	1.765
-23	2.4033	1.8494	1306.1	8.5783	168.56	386.5	0.88073	1.7636
-22	2.4994	1.9298	1302.8	8.9326	169.9	387.07	0.88603	1.7622
-21	2.5984	2.0129	1299.5	9.2983	171.24	387.64	0.89133	1.7608

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(°C)	(bar abs)	(bar abs)	(Kg/M <sup>3</sup> )	(Kg/M <sup>3</sup> )	(KJ/Kg)	(KJ/Kg)	(KJ/Kg-K)	(KJ/Kg-K)
-20	2.7005	2.0987	1296.2	9.6758	172.58	388.21	0.89661	1.7595
-19	2.8055	2.1873	1292.9	10.065	173.92	388.77	0.90188	1.7582
-18	2.9137	2.2788	1289.6	10.467	175.27	389.33	0.90714	1.7569
-17	3.0251	2.3732	1286.3	10.881	176.62	389.89	0.91238	1.7556
-16	3.1397	2.4707	1282.9	11.309	177.97	390.44	0.91762	1.7543
-15	3.2576	2.5712	1279.6	11.749	179.33	390.99	0.92284	1.7531
-14	3.3788	2.6749	1276.2	12.203	180.69	391.55	0.92805	1.7519
-13	3.5035	2.7817	1272.8	12.671	182.05	392.09	0.93325	1.7507
-12	3.6316	2.8918	1269.4	13.153	183.41	392.64	0.93844	1.7495
-11	3.7633	3.0053	1266	13.649	184.78	393.18	0.94363	1.7483
-10	3.8986	3.1221	1262.6	14.16	186.14	393.72	0.9488	1.7472
-9	4.0376	3.2424	1259.1	14.687	187.52	394.26	0.95396	1.7461
-8	4.1803	3.3662	1255.6	15.229	188.89	394.79	0.95911	1.745
-7	4.3268	3.4937	1252.2	15.786	190.27	395.32	0.96425	1.7439
-6	4.4772	3.6248	1248.7	16.36	191.65	395.85	0.96938	1.7428
-5	4.6315	3.7596	1245.1	16.951	193.03	396.37	0.97451	1.7417
-4	4.7899	3.8983	1241.6	17.558	194.42	396.89	0.97962	1.7407
-3	4.9522	4.0408	1238	18.183	195.81	397.41	0.98473	1.7396
-2	5.1188	4.1873	1234.5	18.826	197.2	397.93	0.98983	1.7386
-1	5.2895	4.3378	1230.9	19.487	198.6	398.44	0.99492	1.7376
0	5.4644	4.4924	1227.3	20.167	200	398.94	1	1.7366
1	5.6437	4.6512	1223.6	20.865	201.4	399.45	1.0051	1.7356
2	5.8274	4.8143	1220	21.583	202.81	399.95	1.0101	1.7346
3	6.0156	4.9816	1216.3	22.322	204.22	400.44	1.0152	1.7337
4	6.2083	5.1534	1212.6	23.08	205.64	400.94	1.0203	1.7327
5	6.4057	5.3296	1208.9	23.86	207.05	401.43	1.0253	1.7318
6	6.6077	5.5103	1205.1	24.661	208.47	401.91	1.0303	1.7308
7	6.8144	5.6957	1201.4	25.484	209.9	402.39	1.0354	1.7299
8	7.026	5.8858	1197.6	26.329	211.33	402.87	1.0404	1.729
9	7.2424	6.0807	1193.8	27.198	212.76	403.34	1.0454	1.7281
10	7.4638	6.2804	1189.9	28.09	214.2	403.81	1.0505	1.7272
11	7.6903	6.4851	1186.1	29.006	215.64	404.27	1.0555	1.7263
12	7.9218	6.6947	1182.2	29.948	217.09	404.73	1.0605	1.7254
13	8.1585	6.9095	1178.2	30.914	218.54	405.18	1.0655	1.7245
14	8.4005	7.1295	1174.3	31.907	219.99	405.63	1.0705	1.7236
15	8.6477	7.3547	1170.3	32.926	221.45	406.07	1.0755	1.7227
16	8.9004	7.5853	1166.3	33.973	222.91	406.51	1.0805	1.7219
17	9.1586	7.8213	1162.3	35.048	224.38	406.94	1.0855	1.721
18	9.4222	8.0628	1158.2	36.152	225.85	407.37	1.0905	1.7201
19	9.6915	8.3099	1154.1	37.285	227.33	407.79	1.0955	1.7193
20	9.9665	8.5627	1150	38.449	228.81	408.21	1.1004	1.7184
21	10.247	8.8213	1145.8	39.644	230.3	408.62	1.1054	1.7176
22	10.534	9.0858	1141.6	40.871	231.79	409.02	1.1104	1.7167
23	10.826	9.3562	1137.4	42.131	233.29	409.42	1.1154	1.7158
24	11.125	9.6326	1133.1	43.424	234.8	409.81	1.1204	1.715

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(°C)	(bar abs)	(bar abs)	(Kg/M <sup>3</sup> )	(Kg/M <sup>3</sup> )	(KJ/Kg)	(KJ/Kg)	(KJ/Kg-K)	(KJ/Kg-K)
25	11.429	9.9152	1128.8	44.753	236.3	410.19	1.1253	1.7141
26	11.74	10.204	1124.5	46.117	237.82	410.57	1.1303	1.7133
27	12.057	10.499	1120.1	47.518	239.34	410.94	1.1353	1.7124
28	12.38	10.801	1115.7	48.957	240.86	411.31	1.1403	1.7115
29	12.71	11.109	1111.2	50.436	242.4	411.66	1.1453	1.7106
30	13.046	11.423	1106.7	51.954	243.93	412.01	1.1502	1.7098