



CARE 10 / R600a

A Member of The Linde Group

Temperature (°C)	Pressure (bar)	Liquid Density (kg/m ³)	Vapor Density (kg/m ³)	Liquid Enthalpy (kJ/kg)	Vapor Enthalpy (kJ/kg)	Liquid Entropy (kJ/kg-K)	Vapor Entropy (kJ/kg-K)
-60	0.091628	645.15	0.30273	70.888	476.75	0.46871	2.3728
-59	0.097547	644.15	0.32089	72.908	478	0.47816	2.3698
-58	0.10378	643.14	0.33993	74.931	479.25	0.48758	2.3668
-57	0.11033	642.13	0.35987	76.959	480.51	0.49698	2.364
-56	0.11723	641.11	0.38074	78.991	481.76	0.50635	2.3612
-55	0.12447	640.1	0.40257	81.027	483.02	0.5157	2.3585
-54	0.13208	639.08	0.4254	83.067	484.29	0.52503	2.3558
-53	0.14006	638.06	0.44926	85.111	485.55	0.53433	2.3533
-52	0.14844	637.04	0.47418	87.159	486.82	0.5436	2.3508
-51	0.15722	636.02	0.5002	89.211	488.09	0.55285	2.3484
-50	0.16642	634.99	0.52735	91.268	489.36	0.56208	2.346
-49	0.17606	633.97	0.55566	93.328	490.63	0.57129	2.3438
-48	0.18614	632.94	0.58518	95.393	491.91	0.58047	2.3416
-47	0.19669	631.91	0.61593	97.462	493.19	0.58963	2.3395
-46	0.20772	630.87	0.64796	99.535	494.47	0.59877	2.3374
-45	0.21925	629.84	0.68129	101.61	495.75	0.60789	2.3354
-44	0.23129	628.8	0.71598	103.69	497.03	0.61699	2.3335
-43	0.24386	627.76	0.75205	105.78	498.32	0.62606	2.3316
-42	0.25698	626.72	0.78954	107.87	499.61	0.63512	2.3298
-41	0.27066	625.67	0.8285	109.97	500.9	0.64415	2.3281
-40	0.28493	624.63	0.86897	112.06	502.19	0.65317	2.3264
-39	0.29979	623.58	0.91098	114.17	503.48	0.66216	2.3248
-38	0.31527	622.53	0.95458	116.28	504.78	0.67113	2.3233
-37	0.33139	621.47	0.99981	118.39	506.08	0.68009	2.3218
-36	0.34816	620.41	1.0467	120.51	507.38	0.68902	2.3204
-35	0.3656	619.36	1.0953	122.63	508.68	0.69794	2.319
-34	0.38374	618.29	1.1457	124.76	509.98	0.70684	2.3176
-33	0.40259	617.23	1.1979	126.89	511.28	0.71572	2.3164
-32	0.42217	616.16	1.2519	129.02	512.59	0.72458	2.3152
-31	0.4425	615.09	1.3078	131.16	513.9	0.73342	2.314
-30	0.4636	614.02	1.3656	133.31	515.21	0.74225	2.3129
-29	0.4855	612.95	1.4254	135.46	516.52	0.75106	2.3118
-28	0.50821	611.87	1.4873	137.61	517.83	0.75985	2.3108
-27	0.53175	610.79	1.5512	139.77	519.14	0.76862	2.3099
-26	0.55615	609.71	1.6172	141.94	520.46	0.77738	2.3089
-25	0.58143	608.62	1.6855	144.1	521.78	0.78612	2.3081
-24	0.60761	607.53	1.7559	146.28	523.09	0.79485	2.3073
-23	0.6347	606.44	1.8286	148.46	524.41	0.80356	2.3065
-22	0.66274	605.35	1.9036	150.64	525.73	0.81225	2.3058
-21	0.69175	604.25	1.981	152.83	527.06	0.82093	2.3051
-20	0.72175	603.15	2.0608	155.02	528.38	0.8296	2.3044
-19	0.75276	602.05	2.1431	157.22	529.7	0.83825	2.3038
-18	0.7848	600.94	2.2279	159.43	531.03	0.84688	2.3033
-17	0.8179	599.83	2.3153	161.64	532.35	0.8555	2.3028
-16	0.85208	598.72	2.4054	163.85	533.68	0.8641	2.3023
-15	0.88737	597.6	2.4981	166.07	535.01	0.87269	2.3019
-14	0.9238	596.48	2.5935	168.29	536.34	0.88127	2.3015
-13	0.96137	595.36	2.6918	170.52	537.67	0.88983	2.3011
-12	1.0001	594.24	2.7929	172.76	539	0.89838	2.3008
-11	1.0401	593.11	2.8969	175	540.33	0.90692	2.3005



CARE 10 / R600a

A Member of The Linde Group

Temperature (°C)	Pressure (bar)	Liquid Density (kg/m ³)	Vapor Density (kg/m ³)	Liquid Enthalpy (kJ/kg)	Vapor Enthalpy (kJ/kg)	Liquid Entropy (kJ/kg-K)	Vapor Entropy (kJ/kg-K)
-10	1.0813	591.98	3.0039	177.24	541.67	0.91544	2.3003
-9	1.1237	590.84	3.1139	179.5	543	0.92395	2.3001
-8	1.1674	589.7	3.227	181.75	544.33	0.93245	2.2999
-7	1.2125	588.56	3.3432	184.01	545.67	0.94094	2.2998
-6	1.2588	587.41	3.4627	186.28	547.01	0.94941	2.2997
-5	1.3065	586.26	3.5854	188.55	548.34	0.95787	2.2996
-4	1.3556	585.11	3.7114	190.83	549.68	0.96632	2.2996
-3	1.4061	583.95	3.8409	193.12	551.02	0.97476	2.2996
-2	1.4581	582.79	3.9737	195.4	552.36	0.98318	2.2996
-1	1.5115	581.63	4.1101	197.7	553.69	0.9916	2.2997
0	1.5664	580.46	4.2501	200	555.03	1	2.2998
1	1.6228	579.29	4.3937	202.31	556.37	1.0084	2.2999
2	1.6808	578.11	4.5411	204.62	557.71	1.0168	2.3001
3	1.7403	576.93	4.6922	206.94	559.05	1.0251	2.3002
4	1.8014	575.75	4.8472	209.26	560.4	1.0335	2.3005
5	1.8642	574.56	5.0061	211.59	561.74	1.0419	2.3007
6	1.9286	573.37	5.169	213.92	563.08	1.0502	2.301
7	1.9947	572.17	5.3359	216.26	564.42	1.0585	2.3013
8	2.0624	570.97	5.507	218.61	565.76	1.0668	2.3016
9	2.132	569.76	5.6823	220.96	567.1	1.0752	2.3019
10	2.2033	568.55	5.8619	223.32	568.44	1.0835	2.3023
11	2.2764	567.34	6.0458	225.69	569.79	1.0917	2.3027
12	2.3513	566.12	6.2342	228.06	571.13	1.1	2.3031
13	2.4281	564.9	6.427	230.43	572.47	1.1083	2.3036
14	2.5067	563.67	6.6245	232.82	573.81	1.1166	2.3041
15	2.5873	562.44	6.8267	235.21	575.15	1.1248	2.3046
16	2.6698	561.21	7.0336	237.6	576.49	1.1331	2.3051
17	2.7543	559.97	7.2453	240	577.83	1.1413	2.3056
18	2.8407	558.72	7.462	242.41	579.17	1.1495	2.3062
19	2.9292	557.47	7.6837	244.82	580.51	1.1578	2.3068
20	3.0198	556.21	7.9104	247.25	581.85	1.166	2.3074
21	3.1124	554.95	8.1424	249.67	583.19	1.1742	2.308
22	3.2072	553.69	8.3796	252.1	584.53	1.1824	2.3087
23	3.3041	552.42	8.6222	254.54	585.86	1.1906	2.3093
24	3.4032	551.14	8.8703	256.99	587.2	1.1988	2.31
25	3.5045	549.86	9.1239	259.44	588.53	1.2069	2.3107
26	3.608	548.58	9.3832	261.9	589.87	1.2151	2.3114
27	3.7138	547.29	9.6482	264.37	591.2	1.2233	2.3122
28	3.8219	545.99	9.9191	266.84	592.54	1.2314	2.3129
29	3.9323	544.69	10.196	269.32	593.87	1.2396	2.3137
30	4.0451	543.38	10.479	271.8	595.2	1.2477	2.3145
31	4.1603	542.07	10.768	274.29	596.53	1.2559	2.3153
32	4.2779	540.75	11.063	276.79	597.86	1.264	2.3161
33	4.398	539.43	11.365	279.3	599.18	1.2721	2.317
34	4.5205	538.1	11.673	281.81	600.51	1.2802	2.3178
35	4.6456	536.76	11.988	284.33	601.83	1.2883	2.3187
36	4.7732	535.42	12.31	286.86	603.15	1.2964	2.3196
37	4.9034	534.08	12.638	289.39	604.47	1.3046	2.3205
38	5.0362	532.72	12.974	291.93	605.79	1.3126	2.3214
39	5.1717	531.36	13.317	294.48	607.11	1.3207	2.3223



A Member of The Linde Group

CARE 10 / R600a

Temperature (°C)	Pressure (bar)	Liquid Density (kg/m ³)	Vapor Density (kg/m ³)	Liquid Enthalpy (kJ/kg)	Vapor Enthalpy (kJ/kg)	Liquid Entropy (kJ/kg-K)	Vapor Entropy (kJ/kg-K)
40	5.3099	530	13.667	297.03	608.43	1.3288	2.3232
41	5.4507	528.63	14.024	299.59	609.74	1.3369	2.3242
42	5.5943	527.25	14.389	302.16	611.05	1.345	2.3251
43	5.7407	525.86	14.761	304.74	612.36	1.3531	2.3261
44	5.8899	524.47	15.142	307.32	613.66	1.3611	2.327
45	6.0419	523.07	15.53	309.91	614.97	1.3692	2.328
46	6.1968	521.67	15.926	312.51	616.27	1.3773	2.329
47	6.3546	520.26	16.331	315.12	617.57	1.3853	2.33
48	6.5154	518.84	16.744	317.73	618.86	1.3934	2.331
49	6.6791	517.41	17.166	320.35	620.16	1.4014	2.3321
50	6.8459	515.98	17.597	322.98	621.45	1.4095	2.3331
51	7.0157	514.54	18.036	325.61	622.73	1.4175	2.3341
52	7.1885	513.09	18.485	328.26	624.02	1.4255	2.3352
53	7.3645	511.64	18.943	330.91	625.3	1.4336	2.3362
54	7.5437	510.17	19.41	333.57	626.58	1.4416	2.3372
55	7.726	508.7	19.888	336.23	627.85	1.4496	2.3383
56	7.9115	507.22	20.375	338.91	629.12	1.4577	2.3394
57	8.1003	505.74	20.872	341.59	630.38	1.4657	2.3404
58	8.2924	504.24	21.38	344.28	631.64	1.4737	2.3415
59	8.4878	502.74	21.898	346.98	632.9	1.4817	2.3425
60	8.6866	501.23	22.427	349.69	634.15	1.4898	2.3436
61	8.8888	499.71	22.968	352.41	635.4	1.4978	2.3447
62	9.0944	498.18	23.519	355.13	636.65	1.5058	2.3458
63	9.3035	496.64	24.082	357.86	637.88	1.5138	2.3468
64	9.5161	495.09	24.657	360.61	639.12	1.5218	2.3479
65	9.7322	493.53	25.244	363.36	640.35	1.5298	2.349
66	9.9519	491.96	25.844	366.12	641.57	1.5379	2.35
67	10.175	490.39	26.456	368.89	642.79	1.5459	2.3511
68	10.402	488.8	27.081	371.66	644	1.5539	2.3522
69	10.633	487.2	27.72	374.45	645.2	1.5619	2.3532
70	10.867	485.59	28.372	377.25	646.4	1.5699	2.3543
71	11.106	483.97	29.038	380.06	647.59	1.578	2.3554
72	11.348	482.33	29.719	382.87	648.78	1.586	2.3564
73	11.594	480.69	30.415	385.7	649.95	1.594	2.3574
74	11.844	479.03	31.125	388.53	651.12	1.6021	2.3585
75	12.097	477.36	31.852	391.38	652.29	1.6101	2.3595
76	12.355	475.68	32.594	394.24	653.44	1.6181	2.3605
77	12.617	473.99	33.353	397.1	654.59	1.6262	2.3615
78	12.883	472.28	34.129	399.98	655.72	1.6342	2.3625
79	13.153	470.55	34.922	402.87	656.85	1.6423	2.3635
80	13.427	468.81	35.733	405.77	657.97	1.6503	2.3645
81	13.705	467.06	36.563	408.68	659.08	1.6584	2.3654
82	13.988	465.29	37.412	411.61	660.18	1.6665	2.3664
83	14.275	463.5	38.28	414.54	661.27	1.6746	2.3673
84	14.566	461.7	39.169	417.49	662.35	1.6826	2.3682
85	14.862	459.88	40.078	420.45	663.41	1.6907	2.3691
86	15.162	458.04	41.01	423.43	664.47	1.6988	2.37
87	15.466	456.18	41.964	426.41	665.51	1.707	2.3708
88	15.775	454.3	42.94	429.41	666.54	1.7151	2.3717
89	16.089	452.4	43.941	432.43	667.55	1.7232	2.3725



A Member of The Linde Group

CARE 10 / R600a

Temperature (°C)	Pressure (bar)	Liquid Density (kg/m ³)	Vapor Density (kg/m ³)	Liquid Enthalpy (kJ/kg)	Vapor Enthalpy (kJ/kg)	Liquid Entropy (kJ/kg-K)	Vapor Entropy (kJ/kg-K)
90	16.407	450.47	44.967	435.46	668.56	1.7314	2.3733
91	16.73	448.53	46.018	438.5	669.54	1.7396	2.374
92	17.058	446.56	47.096	441.56	670.52	1.7478	2.3748
93	17.391	444.56	48.202	444.64	671.47	1.756	2.3755
94	17.728	442.54	49.336	447.73	672.41	1.7642	2.3762
95	18.07	440.49	50.501	450.84	673.33	1.7724	2.3768
96	18.417	438.41	51.697	453.96	674.24	1.7807	2.3774
97	18.77	436.3	52.925	457.11	675.12	1.789	2.378
98	19.127	434.16	54.187	460.27	675.99	1.7973	2.3785
99	19.489	431.98	55.484	463.46	676.83	1.8057	2.379
100	19.857	429.77	56.819	466.66	677.66	1.814	2.3795
101	20.23	427.51	58.192	469.88	678.46	1.8224	2.3799
102	20.608	425.22	59.606	473.13	679.23	1.8309	2.3802
103	20.992	422.89	61.062	476.4	679.98	1.8393	2.3805
104	21.381	420.5	62.564	479.7	680.7	1.8478	2.3808
105	21.775	418.07	64.112	483.02	681.4	1.8564	2.381
106	22.175	415.59	65.71	486.36	682.06	1.8649	2.3811
107	22.581	413.06	67.36	489.74	682.7	1.8736	2.3812
108	22.992	410.46	69.066	493.14	683.3	1.8823	2.3812
109	23.409	407.8	70.831	496.58	683.86	1.891	2.3811
110	23.832	405.08	72.658	500.05	684.39	1.8998	2.3809
111	24.261	402.28	74.552	503.55	684.88	1.9086	2.3807
112	24.696	399.4	76.516	507.09	685.32	1.9176	2.3803
113	25.137	396.44	78.557	510.67	685.72	1.9266	2.3799
114	25.584	393.39	80.679	514.3	686.06	1.9356	2.3793
115	26.038	390.24	82.889	517.96	686.36	1.9448	2.3786
116	26.498	386.98	85.193	521.68	686.6	1.9541	2.3778
117	26.964	383.6	87.6	525.45	686.77	1.9634	2.3769
118	27.437	380.1	90.119	529.27	686.88	1.9729	2.3758
119	27.916	376.46	92.761	533.16	686.91	1.9825	2.3746
120	28.402	372.66	95.538	537.11	686.86	1.9922	2.3731
121	28.895	368.7	98.465	541.14	686.73	2.0021	2.3715
122	29.394	364.54	101.56	545.25	686.49	2.0122	2.3696
123	29.901	360.17	104.84	549.44	686.14	2.0224	2.3675
124	30.415	355.56	108.33	553.74	685.66	2.0329	2.3651
125	30.936	350.67	112.08	558.15	685.03	2.0436	2.3623
126	31.465	345.46	116.11	562.7	684.23	2.0547	2.3591
127	32.001	339.88	120.48	567.4	683.23	2.066	2.3555
128	32.545	333.84	125.27	572.3	681.98	2.0779	2.3513
129	33.098	327.22	130.58	577.43	680.42	2.0902	2.3463
130	33.658	319.86	136.57	582.88	678.46	2.1033	2.3404