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Lampiran 1

% Campuran	Putaran Blower	Titik	Temperatur	Entalpi			
				Campuran	CO2	propane	butane
90:10%	50	1	26	587,547	391,97	599,76	619,11
		2	48	601,0124	244,454	622,45	658,81
		3	40	586,8942	238,362	612,17	639,07
		4	6	569,2995	426,96	579,75	590,48
	55	1	27	588,304	387,64	600,7	620,5
		2	48	600,0944	244,454	621,81	657,41
		3	40	586,8942	238,362	612,17	639,07
		4	6,5	569,9563	425,27	580,86	591,205
	60	1	27,5	588,583	385,03	601,165	621,235
		2	48	596,6654	244,454	619,8	651,8
		3	41	587,9784	239,124	612,99	640,49
		4	6,5	569,9563	425,27	580,86	591,205
	65	1	28	588,862	382,42	601,63	621,97
		2	48	596,3504	244,454	619,1	651,8
		3	41	587,9022	238,362	612,99	640,49
		4	6,5	569,9563	425,27	580,86	591,205
	70	1	30	589,341	366,06	603,47	624,83
		2	48	595,3919	244,454	618,38	650,39
		3	42	588,9057	238,362	613,8	641,91
		4	7	570,3325	426,13	580,8	591,91
85:15%	50	1	26,5	587,9963	389,805	600,23	619,805
		2	54	601,4694	249,024	622,45	658,81
		3	35	581,4104	234,554	607,94	631,96
		4	7,5	570,8438	425,685	581,32	592,625
	55	1	31	588,1565	343,73	604,38	626,25
		2	54	601,4694	249,024	622,45	658,81
		3	35	581,4104	234,554	607,94	631,96
		4	7,5	570,8438	425,685	581,32	592,625
	60	1	31	588,1565	343,73	604,38	626,25
		2	54	601,4694	249,024	622,45	658,81
		3	35	581,4104	234,554	607,94	631,96
		4	7,5	570,8438	425,685	581,32	592,625
	65	1	31	588,1565	343,73	604,38	626,25
		2	54	601,4694	249,024	622,45	658,81
		3	36	582,5126	235,316	608,8	633,38
		4	8	570,255	414,24	581,84	593,34
	70	1	31,5	590,6153	363,075	604,83	626,965
		2	55	601,811	249,785	622,75	659,1
		3	36	581,4866	235,316	608,8	633,38
		4	9	572,3725	424,3	582,88	594,77

80:20%	50	1	29	587,9963	389,805	600,23	619,805
		2	61	612,9329	254,354	628,75	676,8
		3	39	585,81	237,6	611,35	637,65
		4	8	571,355	425,24	581,84	593,34
	55	1	32	587,8315	342,73	604,08	626,05
		2	61	612,1724	254,354	628,43	675,43
		3	39	585,81	237,6	611,35	637,65
		4	8	571,355	425,24	581,84	593,34
	60	1	33	588,1565	343,73	604,38	626,25
		2	61	611,3939	254,354	628,07	674,06
		3	39	585,81	237,6	611,35	637,65
		4	8	571,355	425,24	581,84	593,34
	65	1	34	590,6153	363,075	604,83	626,965
		2	61	609,7964	254,354	627,27	671,31
		3	39	585,81	237,6	611,35	637,65
		4	10	573,384	423,3	583,92	596,2
70	1	35	593,074	382,42	605,28	627,68	
	2	62	609,3461	255,116	629,36	668,05	
	3	42	589,058	239,885	613,8	641,91	
	4	12	575,3725	421,09	585,97	599,06	
100%	50	1	25	608,25	0	598,82	617,68
		2	31	615,315	0	604,38	626,25
		3	38	623,37	0	610,51	636,23
		4	5,5	584,495	0	584,4	584,59
	55	1	25,5	608,8425	0	599,29	618,395
		2	31	615,315	0	604,38	626,25
		3	39	624,5	0	611,35	637,65
		4	5,5	584,495	0	584,4	584,59
	60	1	26	609,435	0	599,76	619,11
		2	31	615,315	0	604,38	626,25
		3	39	624,5	0	611,35	637,65
		4	5,5	585,115	0	579,75	590,48
	65	1	27	610,6	0	600,7	620,5
		2	32	616,48	0	605,28	627,68
		3	40	625,62	0	612,17	639,07
		4	6	586,0325	0	580,86	591,205
70	1	27	611,8	0	601,63	621,97	
	2	33	617,645	0	606,18	629,11	
	3	40	625,62	0	612,17	639,07	
	4	7	586,355	0	580,8	591,91	

Lampiran 2

Putaran Blower (RV)	hA	hB	hcon	vB	vA	mB	mA	mcon	V
50	78	58	100,7	0,855	0,905	0,115626	0,11576	0,00013333	1,6148
55	86	67	104,89	0,86	0,909	0,127457	0,12756	0,0001	1,783145505
60	85	65	104,89	0,863	0,906	0,132893	0,13296	6,6667E-05	1,852534964
65	83	63	105,76	0,86	0,905	0,135325	0,13541	0,000085	1,884595183
70	85	63	104,89	0,86	0,907	0,136412	0,1365	0,000085	1,903921518



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Lampiran 3

% Campuran	Kecepatan Aliran Udara	w	q1	KP
90:10%	1,6148	7,8449	18,2475	2,32602
	1,783145505	7,0879	18,3478	2,58859
	1,852534964	6,8089	18,6268	2,73563
	1,884595183	6,5299	18,9057	2,89524
	1,903921518	6,0509	19,0085	3,14142
85:15%	1,6148	13,473	17,1525	1,27309
	1,783145505	13,313	17,3128	1,30045
	1,852534964	13,213	17,4128	1,31786
	1,884595183	12,113	17,8015	1,46964
	1,903921518	11,195	18,2427	1,62958
80:20%	1,6148	21,149	15,6413	0,73958
	1,783145505	20,313	16,4765	0,81111
	1,852534964	19,988	16,8015	0,84056
	1,884595183	17,53	17,2312	0,98298
	1,903921518	16,276	17,7015	1,08758
100:0%	1,6148	8,255	22,565	2,73349
	1,783145505	7,065	23,755	3,36235
	1,852534964	5,88	24,32	4,13605
	1,884595183	5,88	24,5675	4,17815
	1,903921518	5,845	25,445	4,35329

Lampiran 4

R290, CH₃CH₂CH₃, Propane

T °C	p Bar	vl dm ³ /kg	vg m ³ /kg	hl kJ/kg	hg kJ/kg	R kJ/kg	sl kJ/(kg K)	sg kJ/(kg K)
-56.00	0.520	1.7107	0.76728	70.29	509.50	439.21	0.4726	2.4952
-55.00	0.547	1.7137	0.73211	72.51	510.68	438.17	0.4827	2.4913
-54.00	0.575	1.7167	0.69889	74.73	511.86	437.13	0.4929	2.4875
-53.00	0.604	1.7198	0.66749	76.95	513.04	436.09	0.5030	2.4838
-52.00	0.635	1.7229	0.63780	79.18	514.22	435.04	0.5130	2.4802
-51.00	0.666	1.7259	0.60971	81.41	515.40	433.99	0.5231	2.4767
-50.00	0.699	1.7290	0.58311	83.64	516.57	432.93	0.5331	2.4732
-49.00	0.733	1.7322	0.55792	85.88	517.75	431.87	0.5431	2.4698
-48.00	0.768	1.7353	0.53405	88.13	518.92	430.80	0.5530	2.4664
-47.00	0.805	1.7384	0.51142	90.37	520.10	429.73	0.5630	2.4632
-46.00	0.843	1.7416	0.48996	92.62	521.27	428.65	0.5729	2.4599
-45.00	0.882	1.7448	0.46958	94.88	522.45	427.57	0.5827	2.4568
-44.00	0.923	1.7480	0.45024	97.13	523.62	426.48	0.5926	2.4537
-43.00	0.965	1.7512	0.43187	99.39	524.79	425.39	0.6024	2.4507
-42.00	1.009	1.7545	0.41440	101.66	525.96	424.30	0.6122	2.4478
-41.00	1.054	1.7577	0.39780	103.92	527.12	423.20	0.6219	2.4449
-40.00	1.101	1.7610	0.38201	106.20	528.29	422.10	0.6316	2.4420
-39.00	1.149	1.7643	0.36698	108.47	529.46	420.99	0.6413	2.4393
-38.00	1.199	1.7676	0.35266	110.75	530.62	419.88	0.6510	2.4366
-37.00	1.251	1.7709	0.33903	113.03	531.78	418.76	0.6606	2.4339
-36.00	1.305	1.7743	0.32604	115.31	532.95	417.64	0.6702	2.4313
-35.00	1.360	1.7776	0.31366	117.59	534.10	416.51	0.6798	2.4288
-34.00	1.417	1.7810	0.30185	119.88	535.26	415.38	0.6894	2.4263
-33.00	1.475	1.7844	0.29058	122.17	536.42	414.25	0.6989	2.4238
-32.00	1.536	1.7878	0.27983	124.47	537.58	413.11	0.7084	2.4214
-31.00	1.599	1.7913	0.26956	126.77	538.73	411.96	0.7178	2.4191
-30.00	1.663	1.7948	0.25975	129.07	539.88	410.81	0.7273	2.4168
-29.00	1.730	1.7982	0.25037	131.37	541.03	409.66	0.7367	2.4146
-28.00	1.798	1.8018	0.24141	133.68	542.18	408.50	0.7461	2.4124
-27.00	1.869	1.8053	0.23284	135.99	543.33	407.33	0.7554	2.4102
-26.00	1.942	1.8088	0.22464	138.30	544.47	406.17	0.7647	2.4081
-25.00	2.016	1.8124	0.21679	140.62	545.61	404.99	0.7740	2.4061
-24.00	2.093	1.8160	0.20928	142.94	546.75	403.81	0.7833	2.4041
-23.00	2.173	1.8196	0.20208	145.27	547.89	402.63	0.7926	2.4021
-22.00	2.254	1.8233	0.19518	147.59	549.03	401.43	0.8018	2.4002
-21.00	2.338	1.8270	0.18858	149.93	550.16	400.24	0.8110	2.3983
-20.00	2.424	1.8307	0.18224	152.26	551.30	399.03	0.8202	2.3965
-19.00	2.513	1.8344	0.17616	154.60	552.43	397.83	0.8293	2.3947
-18.00	2.604	1.8381	0.17033	156.94	553.55	396.61	0.8385	2.3929
-17.00	2.697	1.8419	0.16474	159.29	554.68	395.39	0.8476	2.3912
-16.00	2.793	1.8457	0.15936	161.64	555.80	394.16	0.8567	2.3895
-15.00	2.892	1.8495	0.15420	164.00	556.92	392.92	0.8658	2.3878
-14.00	2.993	1.8534	0.14925	166.36	558.04	391.68	0.8748	2.3862
-13.00	3.097	1.8573	0.14448	168.73	559.15	390.43	0.8839	2.3846
-12.00	3.204	1.8612	0.13991	171.10	560.27	389.17	0.8929	2.3831
-11.00	3.313	1.8651	0.13550	173.47	561.38	387.90	0.9019	2.3816
-10.00	3.425	1.8691	0.13127	175.85	562.48	386.63	0.9109	2.3801
-9.00	3.540	1.8731	0.12719	178.24	563.59	385.35	0.9198	2.3787
-8.00	3.658	1.8771	0.12327	180.63	564.69	384.05	0.9288	2.3772
-7.00	3.779	1.8812	0.11950	183.03	565.79	382.75	0.9377	2.3758
-6.00	3.902	1.8853	0.11586	185.44	566.88	381.44	0.9467	2.3745

T °C	p Bar	vl dm ³ /kg	vg m ³ /kg	hl kJ/kg	hg kJ/kg	R kJ/kg	sl kJ/(kg K)	sg kJ/(kg K)
-5.00	4.029	1.8894	0.11236	187.85	567.97	380.13	0.9556	2.3732
-4.00	4.159	1.8935	0.10899	190.26	569.06	378.80	0.9645	2.3719
-3.00	4.292	1.8977	0.10573	192.69	570.15	377.46	0.9734	2.3706
-2.00	4.428	1.9020	0.10260	195.12	571.23	376.11	0.9823	2.3694
-1.00	4.568	1.9062	0.09957	197.56	572.31	374.75	0.9911	2.3681
0.00	4.710	1.9106	0.09666	200.00	573.38	373.38	1.0000	2.3669
1.00	4.856	1.9149	0.09385	202.45	574.45	372.00	1.0089	2.3658
2.00	5.005	1.9193	0.09113	204.91	575.52	370.61	1.0177	2.3646
3.00	5.158	1.9237	0.08851	207.38	576.58	369.21	1.0265	2.3635
12.00	6.694	1.9655	0.06858	229.90	585.97	356.08	1.1057	2.3545
13.00	6.883	1.9704	0.06671	232.45	586.99	354.55	1.1145	2.3536
14.00	7.076	1.9753	0.06490	235.00	588.01	353.01	1.1233	2.3527
15.00	7.274	1.9803	0.06316	237.57	589.02	351.45	1.1321	2.3518
16.00	7.475	1.9854	0.06146	240.15	590.03	349.88	1.1409	2.3509
17.00	7.681	1.9905	0.05982	242.73	591.03	348.29	1.1497	2.3501
18.00	7.890	1.9956	0.05823	245.33	592.02	346.69	1.1585	2.3492
19.00	8.104	2.0009	0.05669	247.93	593.01	345.08	1.1673	2.3484
20.00	8.322	2.0062	0.05520	250.55	593.99	343.44	1.1760	2.3476
21.00	8.545	2.0115	0.05375	253.17	594.97	341.80	1.1848	2.3468
22.00	8.771	2.0170	0.05235	255.81	595.94	340.14	1.1936	2.3460
23.00	9.003	2.0225	0.05099	258.45	596.91	338.46	1.2024	2.3452
24.00	9.238	2.0280	0.04967	261.10	597.87	336.76	1.2112	2.3445
25.00	9.478	2.0337	0.04839	263.77	598.82	335.05	1.2200	2.3437
26.00	9.723	2.0394	0.04715	266.44	599.76	333.32	1.2287	2.3430
27.00	9.972	2.0452	0.04594	269.12	600.70	331.58	1.2375	2.3422
28.00	10.226	2.0511	0.04477	271.82	601.63	329.82	1.2463	2.3415
29.00	10.485	2.0571	0.04364	274.52	602.56	328.04	1.2551	2.3408
30.00	10.749	2.0631	0.04253	277.23	603.47	326.24	1.2639	2.3401
31.00	11.017	2.0693	0.04146	279.96	604.38	324.43	1.2727	2.3393
32.00	11.290	2.0755	0.04042	282.69	605.28	322.59	1.2815	2.3386
33.00	11.568	2.0819	0.03940	285.44	606.18	320.74	1.2903	2.3379
34.00	11.852	2.0883	0.03842	288.19	607.06	318.87	1.2990	2.3372
35.00	12.140	2.0949	0.03746	290.96	607.94	316.98	1.3078	2.3365
36.00	12.433	2.1016	0.03653	293.74	608.80	315.07	1.3166	2.3358
37.00	12.732	2.1084	0.03563	296.53	609.66	313.13	1.3255	2.3351
38.00	13.036	2.1153	0.03475	299.33	610.51	311.18	1.3343	2.3344
39.00	13.345	2.1223	0.03389	302.14	611.35	309.21	1.3431	2.3336
40.00	13.659	2.1295	0.03305	304.96	612.17	307.21	1.3519	2.3329
41.00	13.979	2.1368	0.03224	307.80	612.99	305.19	1.3607	2.3322
42.00	14.305	2.1442	0.03145	310.65	613.80	303.15	1.3695	2.3315
43.00	14.636	2.1518	0.03068	313.51	614.59	301.08	1.3784	2.3307
44.00	14.973	2.1596	0.02993	316.38	615.37	298.99	1.3872	2.3300
45.00	15.315	2.1675	0.02920	319.27	616.15	296.87	1.3961	2.3292
46.00	15.663	2.1756	0.02849	322.18	616.90	294.73	1.4050	2.3284
47.00	16.017	2.1838	0.02779	325.09	617.65	292.56	1.4139	2.3277
48.00	16.377	2.1923	0.02712	328.02	618.38	290.36	1.4228	2.3269
49.00	16.742	2.2009	0.02646	330.97	619.10	288.13	1.4317	2.3260
50.00	17.114	2.2097	0.02581	333.94	619.80	285.86	1.4406	2.3252
51.00	17.492	2.2188	0.02518	336.92	620.49	283.57	1.4496	2.3244
52.00	17.876	2.2281	0.02457	339.92	621.16	281.24	1.4585	2.3235
53.00	18.266	2.2376	0.02397	342.94	621.81	278.88	1.4675	2.3226

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T °C	p Bar	v _l dm ³ /kg	v _g m ³ /kg	h _l kJ/kg	h _g kJ/kg	R kJ/kg	s _l kJ/(kg K)	s _g kJ/(kg K)
54.00	18.663	2.2474	0.02339	345.97	622.45	276.48	1.4766	2.3217
55.00	19.066	2.2574	0.02282	349.03	623.07	274.04	1.4856	2.3207
56.00	19.475	2.2678	0.02226	352.11	623.67	271.56	1.4947	2.3197
57.00	19.891	2.2784	0.02172	355.22	624.25	269.03	1.5038	2.3187
58.00	20.313	2.2893	0.02118	358.35	624.81	266.47	1.5130	2.3177
59.00	20.743	2.3006	0.02066	361.50	625.35	263.85	1.5222	2.3166
60.00	21.179	2.3122	0.02016	364.68	625.87	261.18	1.5315	2.3155
61.00	21.621	2.3242	0.01966	367.90	626.36	258.47	1.5408	2.3143
62.00	22.071	2.3367	0.01917	371.14	626.83	255.69	1.5502	2.3131
63.00	22.528	2.3495	0.01869	374.41	627.27	252.86	1.5596	2.3118
64.00	22.992	2.3628	0.01823	377.72	627.68	249.96	1.5691	2.3105
65.00	23.463	2.3766	0.01777	381.07	628.07	247.00	1.5787	2.3092
66.00	23.941	2.3909	0.01732	384.46	628.43	243.97	1.5884	2.3077
67.00	24.426	2.4058	0.01688	387.88	628.75	240.86	1.5981	2.3062
68.00	24.919	2.4212	0.01645	391.36	629.04	237.68	1.6080	2.3047
69.00	25.419	2.4374	0.01603	394.88	629.29	234.41	1.6179	2.3030
70.00	25.927	2.4542	0.01562	398.45	629.50	231.05	1.6280	2.3013
71.00	26.442	2.4719	0.01521	402.08	629.68	227.60	1.6382	2.2995
72.00	26.965	2.4903	0.01481	405.76	629.81	224.05	1.6485	2.2976
73.00	27.496	2.5097	0.01442	409.51	629.90	220.39	1.6589	2.2956
74.00	28.034	2.5301	0.01403	413.34	629.92	216.58	1.6696	2.2935
75.00	28.580	2.5516	0.01366	417.22	629.91	212.69	1.6803	2.2913
76.00	29.134	2.5742	0.01329	421.16	629.85	208.68	1.6913	2.2890
77.00	29.696	2.5983	0.01292	425.19	629.72	204.53	1.7024	2.2865
78.00	30.266	2.6238	0.01256	429.34	629.51	200.17	1.7138	2.2838
79.00	30.844	2.6509	0.01220	433.57	629.24	195.67	1.7254	2.2810
80.00	31.430	2.6800	0.01185	437.90	628.89	190.99	1.7372	2.2780
81.00	32.024	2.7111	0.01150	442.35	628.46	186.11	1.7493	2.2748
82.00	32.626	2.7447	0.01115	446.91	627.93	181.02	1.7617	2.2714
83.00	33.236	2.7810	0.01081	451.62	627.30	175.68	1.7745	2.2678
84.00	33.854	2.8204	0.01047	456.47	626.56	170.09	1.7876	2.2638
85.00	34.481	2.8636	0.01014	461.49	625.68	164.19	1.8012	2.2596
86.00	35.115	2.9111	0.00980	466.70	624.66	157.96	1.8152	2.2550
87.00	35.757	2.9638	0.00947	472.12	623.47	151.35	1.8297	2.2500
88.00	36.407	3.0229	0.00913	477.79	622.09	144.30	1.8449	2.2445
89.00	37.065	3.0898	0.00879	483.75	620.48	136.73	1.8608	2.2384
90.00	37.731	3.1667	0.00845	490.06	618.60	128.54	1.8776	2.2316
91.00	38.404	3.2565	0.00810	496.83	616.35	119.52	1.8957	2.2239
92.00	39.085	3.3638	0.00775	504.15	613.67	109.52	1.9151	2.2151
93.00	39.773	3.4963	0.00737	512.26	610.40	98.15	1.9366	2.2047
94.00	40.469	3.6675	0.00697	521.52	606.27	84.75	1.9612	2.1921
95.00	41.171	3.9070	0.00652	532.78	600.70	67.92	1.9911	2.1756
96.00	41.881	4.3059	0.00596	548.51	592.03	43.52	2.0330	2.1509

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PT. TEACH INTEGRATION
Komp. Pertokoan Ciptapuri Blok GG/9 Sekupang Batam

Lampiran 5

R600, CH₃CH₂CH₂CH₃, Butane

T °C	p Bar	v _l ³ dm ³ /k	v _g ³ m ³ /k	hl kJ/kg	hg kJ/kg	R kJ/kg	sl kJ/kg	sg kJ/kg
-17.00	0.518	1.6356	0.68775	160.01	557.76	397.75	0.8492	2.4020
-16.00	0.541	1.6380	0.66051	162.36	559.18	396.81	0.8583	2.4014
-15.00	0.565	1.6405	0.63457	164.71	560.59	395.88	0.8674	2.4009
-14.00	0.590	1.6429	0.60987	167.06	562.00	394.94	0.8765	2.4005
-13.00	0.615	1.6454	0.58634	169.41	563.42	394.00	0.8855	2.4001
-12.00	0.642	1.6478	0.56391	171.76	564.84	393.07	0.8945	2.3997
-11.00	0.669	1.6503	0.54253	174.12	566.25	392.14	0.9035	2.3994
-10.00	0.697	1.6528	0.52213	176.47	567.67	391.20	0.9124	2.3991
-9.00	0.726	1.6553	0.50266	178.82	569.09	390.27	0.9213	2.3988
-8.00	0.756	1.6578	0.48408	181.17	570.51	389.34	0.9302	2.3986
-7.00	0.787	1.6603	0.46633	183.52	571.93	388.41	0.9390	2.3984
-6.00	0.819	1.6629	0.44937	185.87	573.36	387.48	0.9478	2.3983
-5.00	0.852	1.6654	0.43317	188.23	574.78	386.55	0.9566	2.3982
-4.00	0.886	1.6680	0.41768	190.58	576.20	385.62	0.9653	2.3981
-3.00	0.921	1.6705	0.40286	192.93	577.63	384.69	0.9741	2.3981
-2.00	0.957	1.6731	0.38868	195.29	579.05	383.76	0.9827	2.3981
-1.00	0.994	1.6757	0.37511	197.64	580.48	382.83	0.9914	2.3981
0.00	1.032	1.6783	0.36212	200.00	581.91	381.91	1.0000	2.3982
1.00	1.071	1.6809	0.34967	202.36	583.33	380.98	1.0086	2.3983
2.00	1.112	1.6835	0.33775	204.71	584.76	380.05	1.0171	2.3984
3.00	1.154	1.6862	0.32632	207.07	586.19	379.12	1.0257	2.3985
4.00	1.197	1.6888	0.31537	209.43	587.62	378.18	1.0342	2.3987
5.00	1.241	1.6915	0.30486	211.80	589.05	377.25	1.0427	2.3990
6.00	1.286	1.6942	0.29478	214.16	590.48	376.32	1.0511	2.3992
7.00	1.333	1.6969	0.28510	216.52	591.91	375.39	1.0595	2.3995
8.00	1.381	1.6996	0.27582	218.89	593.34	374.45	1.0679	2.3998
9.00	1.430	1.7023	0.26690	221.25	594.77	373.52	1.0763	2.4001
10.00	1.480	1.7050	0.25833	223.62	596.20	372.58	1.0847	2.4005
11.00	1.532	1.7077	0.25010	225.99	597.63	371.64	1.0930	2.4009
12.00	1.586	1.7105	0.24219	228.36	599.06	370.70	1.1013	2.4013
13.00	1.641	1.7133	0.23458	230.74	600.50	369.76	1.1096	2.4017
14.00	1.697	1.7161	0.22726	233.11	601.93	368.81	1.1178	2.4022
15.00	1.754	1.7189	0.22023	235.49	603.36	367.87	1.1261	2.4027
16.00	1.814	1.7217	0.21345	237.87	604.79	366.92	1.1343	2.4032
17.00	1.874	1.7245	0.20693	240.26	606.22	365.97	1.1425	2.4038
18.00	1.937	1.7274	0.20066	242.64	607.66	365.01	1.1506	2.4043
19.00	2.000	1.7302	0.19461	245.03	609.09	364.06	1.1588	2.4049
20.00	2.066	1.7331	0.18879	247.42	610.52	363.10	1.1669	2.4055
21.00	2.133	1.7360	0.18318	249.82	611.95	362.14	1.1750	2.4062
22.00	2.201	1.7389	0.17777	252.21	613.38	361.17	1.1831	2.4068
23.00	2.272	1.7418	0.17255	254.61	614.82	360.20	1.1912	2.4075
24.00	2.344	1.7448	0.16752	257.02	616.25	359.23	1.1992	2.4082
25.00	2.418	1.7478	0.16267	259.42	617.68	358.26	1.2073	2.4089
26.00	2.493	1.7507	0.15799	261.83	619.11	357.28	1.2153	2.4096
27.00	2.571	1.7537	0.15347	264.25	620.54	356.29	1.2233	2.4104
28.00	2.650	1.7568	0.14911	266.66	621.97	355.30	1.2313	2.4111
29.00	2.731	1.7598	0.14490	269.08	623.40	354.31	1.2393	2.4119
30.00	2.814	1.7629	0.14084	271.51	624.83	353.32	1.2473	2.4127
31.00	2.898	1.7660	0.13691	273.94	626.25	352.31	1.2552	2.4136
32.00	2.985	1.7691	0.13311	276.37	627.68	351.31	1.2632	2.4144
33.00	3.074	1.7722	0.12944	278.81	629.11	350.30	1.2711	2.4153
34.00	3.164	1.7753	0.12590	281.25	630.53	349.28	1.2790	2.4162
35.00	3.257	1.7785	0.12247	283.70	631.96	348.26	1.2869	2.4170
36.00	3.352	1.7817	0.11915	286.15	633.38	347.23	1.2948	2.4180

T °C	p Bar	v_l dm ³ /kg	v_g m ³ /kg	h _l kJ/kg	h _g kJ/kg	R kJ/kg	s _l kJ/(kg K)	s _g kJ/(kg K)
37.00	3.448	1.7849	0.11594	288.61	634.81	346.20	1.3027	2.4189
38.00	3.547	1.7881	0.11284	291.07	636.23	345.16	1.3105	2.4198
39.00	3.648	1.7914	0.10983	293.54	637.65	344.11	1.3184	2.4208
40.00	3.751	1.7946	0.10692	296.01	639.07	343.06	1.3262	2.4217
41.00	3.857	1.7980	0.10411	298.48	640.49	342.01	1.3341	2.4227
42.00	3.964	1.8013	0.10138	300.97	641.91	340.94	1.3419	2.4237
49.00	4.781	1.8253	0.08452	318.49	651.80	333.30	1.3964	2.4310
50.00	4.908	1.8289	0.08240	321.02	653.20	332.18	1.4042	2.4321
51.00	5.036	1.8325	0.08034	323.55	654.61	331.05	1.4119	2.4332
52.00	5.168	1.8361	0.07834	326.09	656.01	329.92	1.4197	2.4343
53.00	5.302	1.8397	0.07640	328.64	657.41	328.77	1.4274	2.4355
54.00	5.438	1.8434	0.07452	331.19	658.81	327.62	1.4352	2.4366
55.00	5.577	1.8471	0.07269	333.75	660.21	326.46	1.4429	2.4377
56.00	5.719	1.8508	0.07092	336.28	661.61	325.33	1.4505	2.4389
57.00	5.864	1.8546	0.06919	338.85	663.00	324.15	1.4582	2.4401
58.00	6.011	1.8584	0.06752	341.43	664.39	322.97	1.4659	2.4412
59.00	6.161	1.8623	0.06589	344.01	665.78	321.77	1.4736	2.4424
60.00	6.313	1.8662	0.06431	346.60	667.17	320.57	1.4813	2.4436
61.00	6.469	1.8701	0.06277	349.19	668.55	319.36	1.4890	2.4448
62.00	6.627	1.8741	0.06128	351.80	669.93	318.13	1.4967	2.4460
63.00	6.788	1.8781	0.05983	354.41	671.31	316.90	1.5044	2.4472
64.00	6.953	1.8821	0.05841	357.02	672.69	315.66	1.5121	2.4484
65.00	7.120	1.8862	0.05704	359.65	674.06	314.41	1.5198	2.4496
66.00	7.290	1.8904	0.05570	362.28	675.43	313.15	1.5274	2.4508
67.00	7.463	1.8946	0.05440	364.91	676.80	311.88	1.5351	2.4520
68.00	7.639	1.8988	0.05314	367.56	678.16	310.60	1.5428	2.4532
69.00	7.818	1.9031	0.05190	370.21	679.52	309.31	1.5504	2.4545
70.00	8.001	1.9074	0.05071	372.86	680.88	308.01	1.5581	2.4557
71.00	8.186	1.9118	0.04954	375.53	682.23	306.70	1.5657	2.4569
72.00	8.375	1.9162	0.04840	378.20	683.58	305.38	1.5734	2.4582
73.00	8.567	1.9207	0.04729	380.88	684.93	304.05	1.5810	2.4594
74.00	8.762	1.9252	0.04622	383.57	686.27	302.70	1.5887	2.4606
75.00	8.961	1.9298	0.04517	386.26	687.61	301.35	1.5963	2.4619
76.00	9.162	1.9345	0.04414	388.96	688.94	299.98	1.6039	2.4631
77.00	9.368	1.9392	0.04314	391.67	690.27	298.61	1.6116	2.4644
78.00	9.576	1.9440	0.04217	394.38	691.60	297.22	1.6192	2.4656
79.00	9.789	1.9488	0.04122	397.10	692.92	295.82	1.6268	2.4668
80.00	10.004	1.9538	0.04030	399.83	694.23	294.40	1.6344	2.4681
81.00	10.223	1.9587	0.03940	402.57	695.55	292.97	1.6420	2.4693
82.00	10.446	1.9638	0.03852	405.32	696.85	291.54	1.6497	2.4705
83.00	10.672	1.9689	0.03766	408.07	698.15	290.08	1.6573	2.4718
84.00	10.903	1.9741	0.03683	410.83	699.45	288.62	1.6649	2.4730
85.00	11.136	1.9794	0.03601	413.60	700.74	287.14	1.6725	2.4742
86.00	11.374	1.9848	0.03521	416.38	702.02	285.64	1.6801	2.4755
87.00	11.615	1.9902	0.03443	419.16	703.30	284.13	1.6877	2.4767
88.00	11.860	1.9957	0.03367	421.96	704.57	282.61	1.6954	2.4779
89.00	12.109	2.0014	0.03293	424.76	705.83	281.07	1.7030	2.4791
90.00	12.362	2.0071	0.03221	427.58	707.09	279.52	1.7106	2.4803
91.00	12.619	2.0129	0.03150	430.40	708.34	277.94	1.7182	2.4815
92.00	12.880	2.0188	0.03081	433.23	709.58	276.36	1.7258	2.4827
93.00	13.145	2.0248	0.03013	436.07	710.82	274.75	1.7335	2.4838
94.00	13.414	2.0309	0.02947	438.92	712.05	273.13	1.7411	2.4850
95.00	13.687	2.0372	0.02883	441.78	713.27	271.48	1.7487	2.4861
96.00	13.964	2.0435	0.02820	444.66	714.48	269.82	1.7564	2.4873
97.00	14.246	2.0500	0.02758	447.54	715.68	268.14	1.7640	2.4884
98.00	14.532	2.0566	0.02698	450.44	716.87	266.44	1.7717	2.4895

T °C	p Bar	v _l dm ³ /kg	v _g m ³ /kg	h _l kJ/kg	h _g kJ/kg	R kJ/kg	s _l kJ/(kg K)	s _g kJ/(kg K)
99.00	14.822	2.0634	0.02639	453.35	718.06	264.71	1.7793	2.4906
100.00	15.117	2.0703	0.02581	456.27	719.23	262.96	1.7870	2.4917
101.00	15.416	2.0773	0.02524	459.20	720.39	261.19	1.7947	2.4928
102.00	15.719	2.0845	0.02469	462.15	721.54	259.40	1.8024	2.4938
107.00	17.307	2.1229	0.02209	477.12	727.12	250.01	1.8411	2.4988
108.00	17.639	2.1311	0.02160	480.16	728.20	248.04	1.8489	2.4997
109.00	17.975	2.1395	0.02112	483.22	729.26	246.04	1.8568	2.5006
110.00	18.317	2.1482	0.02065	486.31	730.31	244.00	1.8646	2.5015
111.00	18.664	2.1571	0.02019	489.41	731.34	241.93	1.8725	2.5023
112.00	19.015	2.1663	0.01974	492.54	732.35	239.81	1.8805	2.5031
113.00	19.372	2.1757	0.01930	495.68	733.35	237.66	1.8884	2.5039
114.00	19.734	2.1854	0.01886	498.86	734.32	235.46	1.8964	2.5046
115.00	20.102	2.1954	0.01844	502.06	735.28	233.22	1.9045	2.5053
116.00	20.474	2.2056	0.01802	505.28	736.22	230.93	1.9126	2.5060
117.00	20.852	2.2163	0.01761	508.54	737.13	228.59	1.9207	2.5066
118.00	21.236	2.2272	0.01720	511.82	738.03	226.20	1.9289	2.5072
119.00	21.625	2.2386	0.01681	515.14	738.89	223.75	1.9371	2.5077
120.00	22.019	2.2503	0.01641	518.49	739.74	221.25	1.9455	2.5082
121.00	22.419	2.2624	0.01603	521.88	740.56	218.68	1.9538	2.5086
122.00	22.825	2.2750	0.01565	525.30	741.34	216.04	1.9623	2.5090
123.00	23.237	2.2881	0.01528	528.77	742.10	213.34	1.9708	2.5093
124.00	23.654	2.3018	0.01492	532.27	742.83	210.56	1.9794	2.5096
125.00	24.077	2.3160	0.01456	535.82	743.53	207.70	1.9881	2.5097
126.00	24.506	2.3308	0.01420	539.42	744.18	204.76	1.9969	2.5098
127.00	24.942	2.3462	0.01385	543.07	744.80	201.73	2.0057	2.5099
128.00	25.383	2.3624	0.01351	546.80	745.37	198.58	2.0148	2.5098
129.00	25.830	2.3794	0.01317	550.55	745.91	195.37	2.0238	2.5096
130.00	26.284	2.3973	0.01283	554.35	746.40	192.05	2.0330	2.5094
131.00	26.743	2.4161	0.01250	558.23	746.85	188.62	2.0423	2.5091
132.00	27.209	2.4360	0.01217	562.20	747.22	185.01	2.0519	2.5085
133.00	27.681	2.4570	0.01185	566.24	747.54	181.30	2.0616	2.5079
134.00	28.160	2.4794	0.01152	570.35	747.79	177.44	2.0714	2.5072
135.00	28.645	2.5033	0.01120	574.56	747.97	173.42	2.0814	2.5063
136.00	29.137	2.5288	0.01089	578.86	748.08	169.22	2.0916	2.5052
137.00	29.635	2.5562	0.01057	583.26	748.09	164.83	2.1021	2.5039
138.00	30.139	2.5858	0.01026	587.79	748.01	160.22	2.1128	2.5025
139.00	30.650	2.6180	0.00995	592.44	747.82	155.38	2.1237	2.5007
140.00	31.168	2.6532	0.00963	597.23	747.50	150.27	2.1350	2.4987
141.00	31.692	2.6919	0.00932	602.19	747.04	144.85	2.1467	2.4964
142.00	32.223	2.7349	0.00901	607.34	746.41	139.08	2.1587	2.4937
143.00	32.761	2.7833	0.00869	612.70	745.59	132.88	2.1713	2.4906
144.00	33.305	2.8384	0.00836	618.33	744.52	126.19	2.1844	2.4869
145.00	33.856	2.9022	0.00803	624.29	743.17	118.89	2.1983	2.4826
146.00	34.413	2.9780	0.00769	630.69	741.41	110.71	2.2132	2.4774
147.00	34.978	3.0710	0.00733	637.66	739.15	101.49	2.2294	2.4710
148.00	35.548	3.1907	0.00694	645.48	736.15	90.67	2.2476	2.4629
149.00	36.126	3.3587	0.00651	654.77	731.95	77.18	2.2692	2.4520
150.00	36.709	3.6447	0.00597	667.48	725.15	57.67	2.2987	2.4350
150.80	37.181	4.9020	0.00490		705.00	705.00		
0.00	2.3869	2.3869						

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PT. TEACH INTEGRATION
Komp. Pertokoan Ciptapuri Blok GG/9 Sekupang Batam

Lampiran 6
R744, CO₂, Carbon dioxide

T °C	p Bar	v _l dm ³ /kg	v _g m ³ /kg	h _l kJ/kg	h _g kJ/kg	R kJ/kg	s _l kJ/(kg K)	s _g kJ/(kg K)
-19.00	20.334	0.9734	0.01870	157.10	436.75	279.65	0.8430	1.9433
-18.00	20.961	0.9778	0.01811	159.26	436.65	277.39	0.8512	1.9384
-17.00	21.603	0.9824	0.01754	161.43	436.54	275.11	0.8594	1.9334
-16.00	22.259	0.9870	0.01699	163.61	436.40	272.80	0.8677	1.9285
-15.00	22.929	0.9917	0.01645	165.79	436.25	270.46	0.8759	1.9236
-14.00	23.614	0.9965	0.01594	167.99	436.07	268.09	0.8841	1.9186
-13.00	24.313	1.0014	0.01544	170.19	435.88	265.69	0.8923	1.9136
-12.00	25.028	1.0064	0.01496	172.40	435.66	263.25	0.9005	1.9086
-11.00	25.758	1.0115	0.01450	174.63	435.42	260.79	0.9088	1.9036
-10.00	26.504	1.0167	0.01405	176.86	435.16	258.29	0.9170	1.8985
-9.00	27.265	1.0221	0.01361	179.11	434.87	255.76	0.9252	1.8934
-8.00	28.042	1.0275	0.01319	181.37	434.56	253.19	0.9335	1.8883
-7.00	28.835	1.0331	0.01278	183.64	434.22	250.58	0.9417	1.8832
-6.00	29.644	1.0389	0.01239	185.93	433.86	247.93	0.9500	1.8780
-5.00	30.470	1.0447	0.01201	188.23	433.46	245.23	0.9582	1.8728
-4.00	31.313	1.0508	0.01163	190.55	433.04	242.50	0.9665	1.8675
-3.00	32.173	1.0570	0.01128	192.88	432.59	239.71	0.9749	1.8622
-2.00	33.050	1.0633	0.01093	195.23	432.11	236.88	0.9832	1.8568
-1.00	33.944	1.0699	0.01059	197.61	431.60	233.99	0.9916	1.8514
0.00	34.857	1.0766	0.01026	200.00	431.05	231.05	1.0000	1.8459
1.00	35.787	1.0836	0.00994	202.42	430.47	228.06	1.0085	1.8403
2.00	36.735	1.0908	0.00963	204.86	429.85	225.00	1.0170	1.8347
3.00	37.702	1.0982	0.00933	207.32	429.19	221.87	1.0255	1.8290
4.00	38.688	1.1058	0.00904	209.82	428.49	218.68	1.0342	1.8232
5.00	39.693	1.1137	0.00875	212.34	427.75	215.41	1.0428	1.8173
6.00	40.716	1.1220	0.00847	214.89	426.96	212.07	1.0516	1.8113
7.00	41.760	1.1305	0.00820	217.48	426.13	208.65	1.0604	1.8052
8.00	42.823	1.1393	0.00794	220.11	425.24	205.13	1.0694	1.7990
9.00	43.906	1.1486	0.00768	222.77	424.30	201.53	1.0784	1.7926
10.00	45.010	1.1582	0.00743	225.47	423.30	197.83	1.0875	1.7861
11.00	46.134	1.1683	0.00719	228.21	422.24	194.02	1.0967	1.7795
12.00	47.279	1.1788	0.00695	231.03	421.09	190.06	1.1061	1.7726
13.00	48.446	1.1899	0.00671	233.86	419.90	186.04	1.1155	1.7657
14.00	49.634	1.2015	0.00648	236.74	418.62	181.89	1.1251	1.7585
15.00	50.844	1.2138	0.00626	239.67	417.26	177.60	1.1348	1.7511
16.00	52.077	1.2269	0.00604	242.70	415.79	173.09	1.1447	1.7434
17.00	53.332	1.2407	0.00582	245.78	414.22	168.44	1.1548	1.7354
18.00	54.611	1.2555	0.00561	248.94	412.54	163.60	1.1652	1.7271
19.00	55.914	1.2714	0.00540	252.19	410.73	158.54	1.1757	1.7184
20.00	57.242	1.2886	0.00519	255.53	408.76	153.24	1.1866	1.7093
21.00	58.594	1.3073	0.00498	258.99	406.63	147.64	1.1977	1.6997
22.00	59.973	1.3277	0.00478	262.59	404.30	141.71	1.2093	1.6895
23.00	61.378	1.3502	0.00457	266.35	401.72	135.37	1.2214	1.6785
24.00	62.812	1.3755	0.00436	270.32	398.86	128.54	1.2342	1.6667
25.00	64.274	1.4042	0.00415	274.56	395.65	121.09	1.2477	1.6539
26.00	65.766	1.4374	0.00394	279.14	391.97	112.84	1.2623	1.6395
27.00	67.289	1.4769	0.00371	284.23	387.64	103.41	1.2786	1.6231
28.00	68.846	1.5259	0.00348	290.02	382.42	92.39	1.2971	1.6039
29.00	70.437	1.5909	0.00321	296.97	375.73	78.75	1.3193	1.5799
30.00	72.065	1.6895	0.00289	306.21	366.06	59.85	1.3489	1.5464
31.00	73.733	1.9686	0.00232	325.75	343.73	17.98	1.4123	1.4714
31.06	73.834	2.1552	0.00216	335.68	335.68	0.00	1.4449	1.4449

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LAMPIRAN 7

