This note describes the content of the SI.

Experimental c_v and pvT Properties for $x$$CH_3OH$ + (1-x)H_2O Mixture

x = 0.059

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
346.15	8.815	0.9660	3.907	381.15	27.209	0.9499	3.694
347.15	10.013	0.9659	3.948	382.15	28.600	0.9498	3.677
348.15	11.221	0.9658	3.908	385.15	10.606	0.9372	3.740
349.15	12.436	0.9657	3.904	386.15	12.014	0.9370	3.734
350.15	13.660	0.9656	3.899	387.15	13.426	0.9369	3.698
351.15	14.893	0.9654	3.891	388.15	14.844	0.9368	3.696
352.15	16.134	0.9653	3.871	389.15	16.267	0.9367	3.698
353.15	17.383	0.9652	3.880	390.15	17.692	0.9366	3.670
354.15	18.639	0.9651	3.863	391.15	19.120	0.9364	3.666
355.15	19.904	0.9650	3.864	392.15	20.553	0.9363	3.653
356.15	21.177	0.9649	3.829	393.15	21.990	0.9362	3.639
357.15	22.456	0.9648	3.818	394.15	23.429	0.9361	3.634
358.15	23.743	0.9647	3.828	395.15	24.873	0.9360	3.620
359.15	25.038	0.9646	3.807	396.15	26.319	0.9359	3.606
360.15	26.338	0.9644	3.799	397.15	27.770	0.9358	3.613
361.15	27.647	0.9643	3.801	398.15	29.222	0.9356	3.573
362.15	28.959	0.9642	3.762	400.15	5.808	0.9190	3.668
364.15	4.292	0.9519	3.844	401.15	7.247	0.9189	3.660
365.15	5.602	0.9518	3.854	402.15	8.690	0.9188	3.649
366.15	6.917	0.9517	3.811	403.15	10.137	0.9186	3.653
367.15	8.235	0.9515	3.812	404.15	11.585	0.9185	3.620
368.15	9.555	0.9514	3.813	405.15	13.034	0.9184	3.617
369.15	10.879	0.9513	3.775	406.15	14.489	0.9183	3.597
370.15	12.205	0.9512	3.780	407.15	15.946	0.9182	3.602
371.15	13.535	0.9511	3.785	408.15	17.404	0.9181	3.609
372.15	14.871	0.9510	3.779	409.15	18.865	0.9180	3.611
373.15	16.216	0.9508	3.749	410.15	20.328	0.9178	3.581

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
374.15	17.573	0.9507	3.772	411.15	21.795	0.9177	3.578
375.15	18.936	0.9506	3.720	412.15	23.262	0.9176	3.551
376.15	20.305	0.9505	3.749	413.15	24.732	0.9175	3.553
377.15	21.679	0.9504	3.730	414.15	26.206	0.9174	3.561
378.15	23.055	0.9503	3.709	415.15	27.681	0.9173	3.545
379.15	24.437	0.9502	3.703	416.15	29.157	0.9172	3.543
380.15	25.821	0.9500	3.695				

$x = 0.352$

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
291.15	8.041	0.9335	3.500	357.15	25.340	0.8964	3.515
292.15	8.459	0.9335	3.479	358.15	26.683	0.8963	3.483
293.15	9.620	0.9334	3.519	359.15	28.029	0.8962	3.517
294.15	10.788	0.9333	3.489	360.15	29.375	0.8961	3.490
295.15	11.962	0.9332	3.498	360.15	8.932	0.8848	3.517
296.15	13.140	0.9331	3.518	361.15	10.269	0.8848	3.513
297.15	14.323	0.9330	3.497	362.15	11.607	0.8847	3.517
298.15	15.512	0.9329	3.517	363.15	12.949	0.8846	3.517
299.15	16.706	0.9328	3.515	364.15	14.293	0.8845	3.517
300.15	17.905	0.9327	3.507	365.15	15.637	0.8844	3.502
301.15	19.109	0.9327	3.522	366.15	16.985	0.8843	3.489
302.15	20.317	0.9326	3.525	367.15	18.335	0.8842	3.504
303.15	21.531	0.9325	3.519	368.15	19.685	0.8841	3.461
304.15	22.749	0.9324	3.525	369.15	21.039	0.8840	3.474
305.15	23.971	0.9323	3.520	370.15	22.394	0.8838	3.471
306.15	25.201	0.9322	3.534	371.15	23.752	0.8837	3.458
307.15	26.434	0.9321	3.521	372.15	25.111	0.8836	3.444
308.15	27.671	0.9320	3.524	373.15	26.473	0.8835	3.460
309.15	28.914	0.9319	3.533	374.15	27.836	0.8834	3.456
307.15	3.721	0.9225	3.532	378.15	11.440	0.8700	3.469

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
308.15	4.939	0.9224	3.572	379.15	12.772	0.8699	3.493
309.15	6.166	0.9223	3.539	380.15	14.106	0.8698	3.454
310.15	7.400	0.9222	3.552	381.15	15.442	0.8697	3.486
311.15	8.637	0.9221	3.545	382.15	16.779	0.8696	3.468
312.15	9.878	0.9220	3.550	383.15	18.119	0.8695	3.466
313.15	11.124	0.9219	3.549	384.15	19.460	0.8694	3.483
314.15	12.375	0.9218	3.555	385.15	20.802	0.8693	3.457
315.15	13.630	0.9218	3.545	386.15	22.147	0.8692	3.464
316.15	14.887	0.9217	3.537	387.15	23.492	0.8691	3.462
317.15	16.151	0.9216	3.551	388.15	24.839	0.8690	3.436
318.15	17.417	0.9215	3.549	389.15	26.188	0.8689	3.440
319.15	18.688	0.9214	3.551	390.15	27.539	0.8688	3.432
320.15	19.961	0.9213	3.550	391.15	28.891	0.8687	3.437
321.15	21.239	0.9212	3.546	388.15	6.236	0.8569	3.476
322.15	22.521	0.9211	3.566	389.15	7.545	0.8568	3.472
323.15	23.806	0.9210	3.543	390.15	8.856	0.8567	3.476
324.15	25.094	0.9209	3.528	391.15	10.169	0.8566	3.454
325.15	26.388	0.9208	3.557	392.15	11.481	0.8565	3.457
326.15	27.683	0.9207	3.539	393.15	12.796	0.8564	3.458
327.15	28.981	0.9206	3.536	394.15	14.113	0.8563	3.451
331.15	10.996	0.9094	3.561	395.15	15.432	0.8562	3.441
332.15	12.303	0.9093	3.545	396.15	16.751	0.8561	3.433
333.15	13.612	0.9092	3.548	397.15	18.072	0.8560	3.435
334.15	14.923	0.9091	3.545	398.15	19.393	0.8559	3.410
335.15	16.237	0.9090	3.539	399.15	20.717	0.8558	3.433
336.15	17.554	0.9089	3.533	400.15	22.041	0.8557	3.420
337.15	18.873	0.9088	3.534	401.15	23.367	0.8556	3.391
338.15	20.197	0.9087	3.535	402.15	24.695	0.8555	3.388
339.15	21.524	0.9086	3.521	403.15	26.023	0.8554	3.365
340.15	22.854	0.9085	3.532	404.15	27.352	0.8553	3.370
341.15	24.187	0.9084	3.518	405.15	28.682	0.8552	3.366

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
342.15	25.523	0.9082	3.513	402.15	7.258	0.8431	3.470
343.15	26.861	0.9081	3.506	403.15	8.545	0.8431	3.455
344.15	28.202	0.9080	3.508	404.15	9.833	0.8430	3.466
345.15	29.545	0.9079	3.510	405.15	11.123	0.8429	3.494
345.15	9.340	0.8976	3.536	406.15	12.414	0.8428	3.472
346.15	10.663	0.8975	3.542	407.15	13.706	0.8427	3.476
347.15	11.989	0.8974	3.538	408.15	14.999	0.8426	3.443
348.15	13.317	0.8973	3.525	409.15	16.294	0.8425	3.463
349.15	14.647	0.8972	3.548	410.15	17.590	0.8424	3.426
350.15	15.977	0.8971	3.521	411.15	18.886	0.8423	3.419
351.15	17.310	0.8970	3.528	412.15	20.182	0.8422	3.417
352.15	18.644	0.8969	3.514	413.15	21.482	0.8421	3.421
353.15	19.980	0.8968	3.530	414.15	22.781	0.8420	3.383
354.15	21.317	0.8967	3.501	415.15	24.082	0.8419	3.383
355.15	22.657	0.8966	3.517	416.15	25.383	0.8418	3.372
356.15	23.997	0.8965	3.497	417.15	26.686	0.8418	3.362

$x = 0.502$

T / K	p / MPa	ρ/ g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
287.15	8.823	0.8841	2.919	348.15	23.845	0.8512	3.199
288.15	9.964	0.8840	2.916	349.15	24.994	0.8511	3.193
289.15	11.119	0.8839	2.912	350.15	26.146	0.8510	3.205
290.15	12.286	0.8838	2.919	351.15	27.302	0.8509	3.195
291.15	13.462	0.8837	2.922	352.15	28.463	0.8508	3.162
292.15	14.645	0.8836	2.929	355.15	8.187	0.8349	3.246
293.15	15.834	0.8835	2.926	356.15	9.335	0.8348	3.227
294.15	17.027	0.8834	2.944	357.15	10.483	0.8347	3.229
295.15	18.228	0.8833	2.935	358.15	11.631	0.8346	3.228
296.15	19.440	0.8832	2.954	359.15	12.776	0.8345	3.233
297.15	20.666	0.8831	2.949	360.15	13.921	0.8344	3.235

T / K	p / MPa	ρ/ g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
298.15	21.895	0.8830	2.954	361.15	15.065	0.8343	3.247
299.15	23.128	0.8829	2.958	362.15	16.210	0.8343	3.222
300.15	24.362	0.8828	2.973	363.15	17.356	0.8342	3.242
301.15	25.599	0.8827	2.983	364.15	18.503	0.8341	3.226
302.15	26.838	0.8826	2.982	365.15	19.649	0.8340	3.244
303.15	28.079	0.8825	2.994	366.15	20.795	0.8339	3.223
304.15	29.322	0.8824	3.001	367.15	21.940	0.8338	3.239
308.15	6.151	0.8681		368.15	23.083	0.8337	3.205
309.15	7.220	0.8680		369.15	24.225	0.8336	3.232
310.15	8.274	0.8679		370.15	25.365	0.8335	3.219
311.15	9.310	0.8678		371.15	26.506	0.8334	3.223
312.15	10.330	0.8677		372.15	27.647	0.8333	3.239
313.15	11.336	0.8676		373.15	28.787	0.8332	3.216
314.15	12.331	0.8676		374.15	29.927	0.8332	3.249
315.15	13.318	0.8675		377.15	5.641	0.8047	
316.15	14.294	0.8674		378.15	6.620	0.8046	
317.15	15.263	0.8673		379.15	7.569	0.8046	
318.15	16.222	0.8672		380.15	8.491	0.8045	
319.15	17.174	0.8671		381.15	9.392	0.8044	
320.15	18.117	0.8670		382.15	10.272	0.8043	
321.15	19.050	0.8669		383.15	11.132	0.8043	
322.15	19.975	0.8669		384.15	11.970	0.8042	
323.15	20.894	0.8668		385.15	12.787	0.8041	
324.15	21.797	0.8667		386.15	13.588	0.8040	
325.15	22.681	0.8666		387.15	14.383	0.8040	
326.15	23.555	0.8665		388.15	15.166	0.8039	
327.15	24.418	0.8664		389.15	15.931	0.8038	
328.15	25.270	0.8664		390.15	16.675	0.8038	
329.15	26.112	0.8663		391.15	17.396	0.8037	
330.15	26.948	0.8662		392.15	18.096	0.8036	
331.15	27.785	0.8661		393.15	18.797	0.8036	

T / K	p / MPa	ρ/ g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
332.15	28.614	0.8660		394.15	19.492	0.8035	
333.15	29.426	0.8659		395.15	20.174	0.8034	
336.15	9.956	0.8524	3.196	396.15	20.848	0.8034	
337.15	11.124	0.8523	3.197	397.15	21.496	0.8033	
338.15	12.293	0.8522	3.202	398.15	22.112	0.8032	
339.15	13.458	0.8521	3.197	399.15	22.693	0.8032	
340.15	14.622	0.8520	3.205	400.15	23.273	0.8031	
341.15	15.784	0.8519	3.191	401.15	24.032	0.8030	
342.15	16.939	0.8518	3.195	402.15	25.113	0.8030	
343.15	18.092	0.8517	3.202	403.15	26.229	0.8029	
344.15	19.243	0.8516	3.184	404.15	27.347	0.8028	
345.15	20.393	0.8515	3.205	405.15	28.468	0.8027	
346.15	21.544	0.8514	3.226	406.15	29.592	0.8026	
347.15	22.694	0.8513	3.232				

$x = 0.708$

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
319.15	6.096	0.8191	2.759	368.15	11.176	0.7861	2.940
320.15	7.082	0.8190	2.807	369.15	12.133	0.7860	2.929
321.15	8.085	0.8190	2.772	370.15	13.094	0.7859	2.929
322.15	9.099	0.8189	2.789	371.15	14.058	0.7858	2.937
323.15	10.122	0.8188	2.790	372.15	15.024	0.7857	2.929
324.15	11.152	0.8187	2.784	373.15	15.993	0.7857	2.933
325.15	12.187	0.8186	2.801	374.15	16.963	0.7856	2.940
326.15	13.227	0.8185	2.780	375.15	17.936	0.7855	2.952
327.15	14.271	0.8184	2.799	376.15	18.911	0.7854	2.937
328.15	15.318	0.8183	2.793	377.15	19.887	0.7853	2.943
329.15	16.369	0.8183	2.787	378.15	20.866	0.7853	2.950
330.15	17.420	0.8182	2.805	379.15	21.846	0.7852	2.952
331.15	18.473	0.8181	2.795	380.15	22.827	0.7851	2.953

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
332.15	19.528	0.8180	2.804	381.15	23.810	0.7850	2.961
333.15	20.585	0.8179	2.804	382.15	24.794	0.7849	2.927
334.15	21.645	0.8178	2.807	383.15	25.781	0.7848	2.975
335.15	22.708	0.8177	2.811	384.15	26.769	0.7848	2.943
336.15	23.774	0.8176	2.823	385.15	27.757	0.7847	2.967
337.15	24.839	0.8176	2.808	386.15	28.748	0.7846	2.965
338.15	25.906	0.8175	2.827	384.15	6.211	0.7641	3.018
339.15	26.973	0.8174	2.814	385.15	7.103	0.7640	3.006
340.15	28.044	0.8173	2.826	386.15	8.001	0.7640	3.004
341.15	29.116	0.8172	2.836	387.15	8.903	0.7639	3.008
343.15	8.107	0.8074	2.859	388.15	9.811	0.7638	3.013
344.15	9.086	0.8073	2.868	389.15	10.723	0.7637	3.002
345.15	10.073	0.8072	2.851	390.15	11.638	0.7637	3.017
346.15	11.065	0.8071	2.875	391.15	12.555	0.7636	2.991
347.15	12.063	0.8070	2.875	392.15	13.475	0.7635	2.979
348.15	13.064	0.8069	2.863	393.15	14.397	0.7634	2.983
349.15	14.067	0.8068	2.864	394.15	15.323	0.7633	3.002
350.15	15.074	0.8068	2.860	395.15	16.251	0.7633	2.983
351.15	16.084	0.8067	2.876	396.15	17.180	0.7632	2.982
352.15	17.097	0.8066	2.859	397.15	18.111	0.7631	2.980
353.15	18.111	0.8065	2.857	398.15	19.045	0.7630	2.984
354.15	19.127	0.8064	2.862	399.15	19.980	0.7630	2.986
355.15	20.145	0.8063	2.883	400.15	20.918	0.7629	2.993
356.15	21.167	0.8062	2.854	401.15	21.856	0.7628	2.963
357.15	22.189	0.8062	2.872	402.15	22.797	0.7627	2.981
358.15	23.213	0.8061	2.882	403.15	23.739	0.7626	2.962
359.15	24.240	0.8060	2.870	404.15	24.683	0.7626	2.982
360.15	25.267	0.8059	2.878	405.15	25.628	0.7625	2.970
361.15	26.295	0.8058	2.883	406.15	26.576	0.7624	2.975
362.15	27.325	0.8057	2.864	407.15	27.525	0.7623	2.986
363.15	28.356	0.8056	2.883	408.15	28.475	0.7622	2.976

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
367.15	10.222	0.7862	2.937				

Experimental c_v and pvT Properties for x 1-C_3H_7OH + (1-x)H_2O Mixture

x = 0.255

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
286.15	6.308	0.8962	3.416	357.15	17.563	0.8519	3.485
287.15	7.450	0.8961	3.422	358.15	18.743	0.8518	3.493
288.15	8.598	0.8960	3.407	359.15	19.925	0.8517	3.488
289.15	9.749	0.8959	3.400	360.15	21.108	0.8517	3.496
290.15	10.897	0.8958	3.414	361.15	22.292	0.8516	3.497
291.15	12.056	0.8958	3.421	362.15	23.475	0.8515	3.487
292.15	13.216	0.8957	3.416	363.15	24.656	0.8514	3.483
293.15	14.373	0.8956	3.429	364.15	25.833	0.8513	3.471
294.15	15.528	0.8955	3.413	365.15	27.010	0.8512	3.497
295.15	16.682	0.8954	3.407	366.15	28.186	0.8511	3.458
296.15	17.835	0.8953	3.437	367.15	29.364	0.8510	3.472
297.15	18.989	0.8952	3.417	368.15	8.387	0.8368	3.499
298.15	20.145	0.8951	3.428	369.15	9.538	0.8367	3.494
299.15	21.302	0.8950	3.431	370.15	10.693	0.8366	3.505
300.15	22.460	0.8949	3.399	371.15	11.850	0.8365	3.496
301.15	23.621	0.8948	3.427	372.15	13.011	0.8364	3.483
302.15	24.784	0.8947	3.426	373.15	14.174	0.8363	3.476
303.15	25.950	0.8946	3.435	374.15	15.341	0.8362	3.481
304.15	27.116	0.8946	3.416	375.15	16.511	0.8361	3.480
305.15	28.282	0.8945	3.444	376.15	17.684	0.8360	3.468
306.15	29.452	0.8944	3.443	377.15	18.860	0.8359	3.476
307.15	6.442	0.8822	3.449	378.15	20.039	0.8358	3.462
308.15	7.641	0.8822	3.461	379.15	21.219	0.8358	3.459
309.15	8.843	0.8821	3.439	380.15	22.403	0.8357	3.455
310.15	10.047	0.8820	3.455	381.15	23.589	0.8356	3.440

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
311.15	11.254	0.8819	3.453	382.15	24.778	0.8355	3.460
312.15	12.461	0.8818	3.458	386.15	8.736	0.8204	3.472
313.15	13.667	0.8817	3.453	387.15	9.855	0.8203	3.444
314.15	14.872	0.8816	3.451	388.15	10.977	0.8202	3.445
315.15	16.079	0.8815	3.464	389.15	12.101	0.8202	3.431
316.15	17.284	0.8814	3.446	390.15	13.229	0.8201	3.416
317.15	18.490	0.8813	3.456	391.15	14.357	0.8200	3.403
318.15	19.697	0.8812	3.463	392.15	15.490	0.8199	3.407
319.15	20.906	0.8811	3.447	393.15	16.625	0.8198	3.395
320.15	22.115	0.8810	3.461	394.15	17.764	0.8197	3.378
321.15	23.324	0.8809	3.456	395.15	18.905	0.8196	3.372
322.15	24.534	0.8808	3.469	396.15	20.034	0.8195	3.380
323.15	25.744	0.8807	3.453	397.15	21.181	0.8194	3.366
324.15	26.956	0.8806	3.465	398.15	22.331	0.8193	3.374
325.15	28.173	0.8805	3.460	399.15	23.482	0.8192	3.362
326.15	29.394	0.8804	3.452	400.15	24.635	0.8192	3.358
329.15	8.855	0.8674	3.511	401.15	25.791	0.8191	3.343
330.15	10.031	0.8673	3.490	402.15	26.950	0.8190	3.338
331.15	11.207	0.8672	3.493	403.15	28.110	0.8189	3.334
332.15	12.383	0.8671	3.508	403.15	6.025	0.8011	3.420
333.15	13.559	0.8670	3.499	404.15	7.092	0.8010	3.428
334.15	14.736	0.8669	3.504	405.15	8.162	0.8009	3.419
335.15	15.914	0.8668	3.488	406.15	9.235	0.8008	3.401
336.15	17.091	0.8667	3.491	407.15	10.311	0.8007	3.406
337.15	18.269	0.8666	3.504	408.15	11.389	0.8006	3.407
338.15	19.449	0.8665	3.496	409.15	12.470	0.8006	3.406
339.15	20.627	0.8664	3.506	410.15	13.554	0.8005	3.410
340.15	21.805	0.8663	3.491	411.15	14.640	0.8004	3.386
341.15	22.978	0.8662	3.477	412.15	15.728	0.8003	3.379
342.15	24.149	0.8662	3.503	413.15	16.812	0.8002	3.391
343.15	25.314	0.8661	3.491	414.15	17.905	0.8001	3.349

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
344.15	26.478	0.8660	3.494	415.15	19.000	0.8000	3.370
345.15	27.639	0.8659	3.482	416.15	20.098	0.8000	3.338
346.15	28.798	0.8658	3.494	417.15	21.198	0.7999	3.343
349.15	8.214	0.8527	3.529	418.15	22.300	0.7998	3.351
350.15	9.377	0.8526	3.526	419.15	23.404	0.7997	3.335
351.15	10.539	0.8525	3.511	420.15	24.509	0.7996	3.298
352.15	11.703	0.8524	3.505	421.15	25.618	0.7995	3.345
353.15	12.867	0.8523	3.514	422.15	26.728	0.7994	3.318
354.15	14.034	0.8522	3.488	423.15	27.840	0.7994	3.312
355.15	15.208	0.8521	3.505	424.15	28.953	0.7993	3.328
356.15	16.384	0.8520	3.475				

$x = 0.510$

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
282.15	5.753	0.8703	2.806	355.15	14.697	0.8205	3.182
283.15	6.874	0.8702	2.816	356.15	15.768	0.8204	3.173
284.15	7.988	0.8701	2.828	357.15	16.842	0.8203	3.186
285.15	9.096	0.8700	2.842	358.15	17.918	0.8202	3.188
286.15	10.198	0.8699	2.837	359.15	18.997	0.8201	3.189
287.15	11.293	0.8699	2.849	360.15	20.078	0.8200	3.193
288.15	12.383	0.8698	2.849	361.15	21.162	0.8199	3.188
289.15	13.467	0.8697	2.861	362.15	22.249	0.8198	3.190
290.15	14.544	0.8696	2.869	363.15	23.338	0.8197	3.197
291.15	15.617	0.8695	2.875	364.15	24.430	0.8197	3.179
292.15	16.685	0.8694	2.878	365.15	25.522	0.8196	3.187
293.15	17.747	0.8693	2.884	366.15	26.618	0.8195	3.189
294.15	18.804	0.8692	2.898	367.15	27.716	0.8194	3.206
295.15	19.855	0.8691	2.893	368.15	6.835	0.8023	3.235
296.15	20.901	0.8691	2.904	369.15	7.855	0.8022	3.249
297.15	21.941	0.8690	2.902	370.15	8.880	0.8022	3.257

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
298.15	22.975	0.8689	2.921	371.15	9.905	0.8021	3.249
299.15	24.002	0.8688	2.931	372.15	10.933	0.8020	3.244
300.15	25.023	0.8687	2.920	373.15	11.963	0.8019	3.233
301.15	26.038	0.8686	2.954	374.15	12.995	0.8018	3.242
302.15	27.047	0.8685	2.936	375.15	14.029	0.8017	3.242
303.15	28.049	0.8684	2.951	376.15	15.065	0.8016	3.240
304.15	29.041	0.8684	2.958	377.15	16.103	0.8015	3.241
309.15	10.357	0.8548	2.948	378.15	17.143	0.8015	3.240
310.15	11.470	0.8547	2.974	379.15	18.186	0.8014	3.205
311.15	12.587	0.8546	2.964	380.15	19.230	0.8013	3.229
312.15	13.706	0.8545	2.972	381.15	20.275	0.8012	3.224
313.15	14.825	0.8544	2.989	382.15	21.324	0.8011	3.236
314.15	15.946	0.8543	2.982	383.15	22.374	0.8010	3.241
315.15	17.068	0.8543	2.987	384.15	23.425	0.8009	3.206
316.15	18.192	0.8542	2.999	385.15	24.479	0.8009	3.229
317.15	19.321	0.8541	2.988	386.15	25.535	0.8008	3.223
318.15	20.450	0.8540	2.996	387.15	26.593	0.8007	3.219
319.15	21.582	0.8539	3.007	388.15	27.655	0.8006	3.229
320.15	22.715	0.8538	3.014	389.15	28.720	0.8005	3.212
321.15	23.853	0.8537	3.005	397.15	14.189	0.7812	3.239
322.15	24.991	0.8536	3.011	398.15	15.159	0.7811	3.221
323.15	26.131	0.8535	3.032	399.15	16.129	0.7810	3.213
324.15	27.272	0.8534	3.023	400.15	17.097	0.7809	3.221
325.15	28.417	0.8533	3.027	401.15	18.066	0.7808	3.211
326.15	29.564	0.8532	3.043	402.15	19.036	0.7808	3.209
327.15	7.158	0.8388	3.077	403.15	20.005	0.7807	3.198
328.15	8.241	0.8387	3.089	404.15	20.975	0.7806	3.189
329.15	9.325	0.8387	3.091	405.15	21.945	0.7805	3.188
330.15	10.413	0.8386	3.106	406.15	22.916	0.7804	3.204
331.15	11.504	0.8385	3.095	407.15	23.886	0.7804	3.194
332.15	12.597	0.8384	3.101	408.15	24.856	0.7803	3.188

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
333.15	13.692	0.8383	3.102	409.15	25.826	0.7802	3.185
334.15	14.790	0.8382	3.113	410.15	26.795	0.7801	3.176
335.15	15.890	0.8381	3.107	411.15	27.765	0.7800	3.168
336.15	16.993	0.8380	3.105	412.15	28.735	0.7800	3.156
337.15	18.098	0.8379	3.121	413.15	29.704	0.7799	3.174
338.15	19.205	0.8378	3.122	416.15	9.951	0.7562	3.221
339.15	20.315	0.8377	3.121	417.15	10.856	0.7561	3.238
340.15	21.427	0.8376	3.128	418.15	11.763	0.7560	3.230
341.15	22.541	0.8375	3.135	419.15	12.671	0.7559	3.180
342.15	23.657	0.8375	3.126	420.15	13.582	0.7559	3.198
343.15	24.776	0.8374	3.131	421.15	14.495	0.7558	3.217
344.15	25.898	0.8373	3.141	422.15	15.410	0.7557	3.179
345.15	27.022	0.8372	3.148	423.15	16.326	0.7556	3.210
346.15	28.148	0.8371	3.130	424.15	17.244	0.7555	3.180
347.15	29.277	0.8370	3.143	425.15	18.164	0.7555	3.207

$x = 0.738$

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
283.15	7.190	0.8387	2.278	344.15	25.699	0.8021	2.736
284.15	8.295	0.8386	2.291	345.15	26.709	0.8020	2.726
285.15	9.401	0.8385	2.304	346.15	27.721	0.8019	2.734
286.15	10.507	0.8384	2.310	347.15	28.734	0.8018	2.733
287.15	11.613	0.8383	2.300	348.15	29.748	0.8018	2.721
288.15	12.719	0.8382	2.328	349.15	8.878	0.7841	2.767
289.15	13.825	0.8381	2.323	350.15	9.813	0.7840	2.778
290.15	14.933	0.8380	2.329	351.15	10.749	0.7840	2.758
291.15	16.042	0.8379	2.352	352.15	11.687	0.7839	2.783
292.15	17.151	0.8378	2.350	353.15	12.626	0.7838	2.780
293.15	18.261	0.8377	2.351	354.15	13.567	0.7837	2.784
294.15	19.372	0.8376	2.363	355.15	14.510	0.7836	2.783

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
295.15	20.482	0.8375	2.372	356.15	15.454	0.7835	2.775
296.15	21.594	0.8374	2.368	357.15	16.400	0.7835	2.791
297.15	22.706	0.8374	2.390	358.15	17.348	0.7834	2.794
298.15	23.819	0.8373	2.397	359.15	18.297	0.7833	2.794
299.15	24.932	0.8372	2.405	360.15	19.248	0.7832	2.809
300.15	26.045	0.8371	2.394	361.15	20.200	0.7831	2.803
301.15	27.159	0.8370	2.411	362.15	21.153	0.7830	2.807
302.15	28.275	0.8369	2.425	363.15	22.110	0.7830	2.813
303.15	29.391	0.8368	2.433	364.15	23.067	0.7829	2.816
304.15	7.379	0.8219	2.457	371.15	6.138	0.7603	2.887
305.15	8.424	0.8218	2.473	372.15	7.006	0.7602	2.889
306.15	9.470	0.8217	2.463	373.15	7.876	0.7601	2.885
307.15	10.516	0.8217	2.483	374.15	8.748	0.7600	2.900
308.15	11.563	0.8216	2.481	375.15	9.622	0.7600	2.903
309.15	12.609	0.8215	2.488	376.15	10.497	0.7599	2.909
310.15	13.658	0.8214	2.504	377.15	11.375	0.7598	2.898
311.15	14.707	0.8213	2.487	378.15	12.254	0.7597	2.913
312.15	15.756	0.8212	2.521	379.15	13.134	0.7596	2.912
313.15	16.808	0.8211	2.520	380.15	14.016	0.7596	2.898
314.15	17.859	0.8210	2.519	396.15	6.065	0.7335	2.977
315.15	18.912	0.8209	2.564	397.15	6.866	0.7335	2.988
316.15	19.965	0.8209	2.532	398.15	7.668	0.7334	2.992
317.15	21.021	0.8208	2.542	399.15	8.472	0.7333	2.958
318.15	22.076	0.8207	2.544	400.15	9.277	0.7332	2.985
319.15	23.132	0.8206	2.558	401.15	10.085	0.7332	2.954
320.15	24.190	0.8205	2.559	402.15	10.894	0.7331	2.969
321.15	25.250	0.8204	2.574	403.15	11.704	0.7330	2.970
322.15	26.311	0.8203	2.571	404.15	12.516	0.7329	2.972
323.15	27.372	0.8202	2.574	405.15	13.330	0.7329	2.969
324.15	28.435	0.8201	2.602	406.15	14.145	0.7328	2.987
325.15	29.499	0.8201	2.588	407.15	14.961	0.7327	2.969

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
325.15	6.764	0.8038	2.629	408.15	15.780	0.7327	2.986
326.15	7.748	0.8037	2.632	409.15	16.599	0.7326	2.977
327.15	8.733	0.8036	2.633	410.15	17.420	0.7325	3.002
328.15	9.720	0.8035	2.653	411.15	18.242	0.7324	2.981
329.15	10.708	0.8034	2.652	412.15	19.066	0.7324	2.985
330.15	11.698	0.8033	2.651	413.15	19.891	0.7323	2.980
331.15	12.689	0.8032	2.659	414.15	20.717	0.7322	2.981
332.15	13.681	0.8031	2.666	415.15	21.545	0.7321	2.964
333.15	14.675	0.8031	2.662	416.15	22.373	0.7321	2.952
334.15	15.670	0.8030	2.684	417.15	23.203	0.7320	2.965
335.15	16.667	0.8029	2.675	418.15	24.035	0.7319	2.961
336.15	17.665	0.8028	2.681	419.15	24.867	0.7318	2.971
337.15	18.664	0.8027	2.686	420.15	25.700	0.7318	2.979
338.15	19.665	0.8026	2.703	421.15	26.535	0.7317	2.958
339.15	20.668	0.8025	2.700	422.15	27.370	0.7316	2.967
340.15	21.672	0.8025	2.708	423.15	28.207	0.7315	2.978
341.15	22.677	0.8024	2.699	424.15	29.044	0.7315	2.974
342.15	23.683	0.8023	2.723	425.15	29.883	0.7314	2.968
343.15	24.690	0.8022	2.703				

x = 1.000 (1-Propanol)

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
314.15	4.353	0.7899	2.179	369.15	25.165	0.7630	2.612
315.15	5.217	0.7898	2.180	370.15	26.008	0.7630	2.601
316.15	6.081	0.7897	2.192	371.15	26.853	0.7629	2.614
317.15	6.946	0.7896	2.207	372.15	27.699	0.7628	2.605
318.15	7.808	0.7895	2.217	373.15	28.548	0.7627	2.622
319.15	8.666	0.7895	2.218	374.15	29.398	0.7627	2.626
320.15	9.526	0.7894	2.224	372.15	2.876	0.7367	2.685
321.15	10.392	0.7893	2.240	373.15	3.622	0.7366	2.695

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
322.15	11.260	0.7892	2.245	374.15	4.369	0.7365	2.699
323.15	12.130	0.7891	2.260	375.15	5.118	0.7365	2.704
324.15	13.000	0.7890	2.261	376.15	5.868	0.7364	2.715
325.15	13.871	0.7890	2.269	377.15	6.620	0.7363	2.715
326.15	14.740	0.7889	2.288	378.15	7.374	0.7362	2.710
327.15	15.599	0.7888	2.279	379.15	8.129	0.7362	2.716
328.15	16.461	0.7887	2.316	380.15	8.887	0.7361	2.723
329.15	17.326	0.7886	2.305	381.15	9.646	0.7360	2.725
330.15	18.193	0.7886	2.308	382.15	10.407	0.7359	2.710
331.15	19.066	0.7885	2.328	383.15	11.170	0.7359	2.739
332.15	19.945	0.7884	2.323	384.15	11.935	0.7358	2.708
333.15	20.825	0.7883	2.332	385.15	12.702	0.7357	2.737
334.15	21.705	0.7882	2.343	386.15	13.470	0.7356	2.726
335.15	22.585	0.7881	2.354	387.15	14.240	0.7356	2.733
336.15	23.467	0.7881	2.357	388.15	15.013	0.7355	2.732
337.15	24.350	0.7880	2.351	389.15	15.786	0.7354	2.734
338.15	25.234	0.7879	2.372	390.15	16.562	0.7353	2.733
339.15	26.119	0.7878	2.376	391.15	17.338	0.7353	2.743
340.15	27.006	0.7877	2.392	392.15	18.116	0.7352	2.720
341.15	27.893	0.7877	2.381	393.15	18.896	0.7351	2.735
342.15	28.774	0.7876	2.413	394.15	19.677	0.7350	2.734
343.15	29.657	0.7875	2.395	395.15	20.459	0.7350	2.735
343.15	3.874	0.7651	2.473	396.15	21.244	0.7349	2.738
344.15	4.675	0.7650	2.446	397.15	22.030	0.7348	2.740
345.15	5.478	0.7649	2.485	398.15	22.817	0.7348	2.741
346.15	6.283	0.7649	2.466	399.15	23.606	0.7347	2.743
347.15	7.088	0.7648	2.488	400.15	24.395	0.7346	2.729
348.15	7.896	0.7647	2.477	401.15	25.186	0.7345	2.735
349.15	8.704	0.7646	2.496	402.15	25.978	0.7345	2.733
350.15	9.514	0.7645	2.509	403.15	26.772	0.7344	2.725
351.15	10.326	0.7645	2.496	404.15	27.566	0.7343	2.726

T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}	T / K	p / MPa	ρ / g cm^{-3}	c_v / J g^{-1} K^{-1}
352.15	11.138	0.7644	2.518	405.15	28.362	0.7342	2.714
353.15	11.953	0.7643	2.525	406.15	29.159	0.7342	2.722
354.15	12.769	0.7642	2.537	414.15	10.151	0.7016	2.850
355.15	13.587	0.7641	2.524	415.15	10.841	0.7015	2.892
356.15	14.406	0.7641	2.539	416.15	11.533	0.7014	2.872
357.15	15.227	0.7640	2.545	417.15	12.227	0.7014	2.875
358.15	16.050	0.7639	2.554	418.15	12.922	0.7013	2.880
359.15	16.870	0.7638	2.553	419.15	13.618	0.7012	2.856
360.15	17.670	0.7638	2.585	420.15	14.316	0.7012	2.871
361.15	18.489	0.7637	2.565	421.15	15.015	0.7011	2.867
362.15	19.314	0.7636	2.588	422.15	15.715	0.7010	2.863
363.15	20.144	0.7635	2.579	423.15	16.417	0.7010	2.868
364.15	20.977	0.7634	2.579	424.15	17.119	0.7009	2.869
365.15	21.811	0.7634	2.586	427.15	19.232	0.7007	2.864
366.15	22.647	0.7633	2.607	428.15	19.938	0.7006	2.853
367.15	23.484	0.7632	2.596	429.15	20.645	0.7006	2.853
368.15	24.324	0.7631	2.597	430.15	21.353	0.7005	2.863