

Table 1 – Equilibrium Compositions for the System Ethanol-Water at 1 Atmosphere

EtOH in liquid phase				Boiling temperature		EtOH in vapor phase			
Percent by weight	Mole fraction	Percent, by volume at 60°K.	Percent, by volume at 20°C.	°C.	°F.	Percent, by weight	Mole fraction	Percent, by volume at 60° F.	Percent, by volume at 20°C.
0,0%	0,000	0,00%	0,00%	100,000	212,00	0,00%	0,000	0,00%	0,00%
0,5%	0,002	0,63%	0,64%	99,650	211,40	5,30%	0,021	6,61%	6,64%
1,0%	0,004	1,26%	1,26%	98,950	210,10	10,30%	0,043	12,76%	12,81%
1,5%	0,006	1,88%	1,89%	98,550	209,40	14,40%	0,062	17,74%	17,80%
2,0%	0,008	2,51%	2,52%	98,050	208,50	19,20%	0,085	23,52%	23,59%
2,5%	0,010	3,14%	3,15%	97,500	207,50	22,90%	0,104	27,91%	27,99%
3,0%	0,012	3,76%	3,78%	97,110	206,80	26,30%	0,122	31,91%	31,98%
3,5%	0,014	4,38%	4,40%	96,560	205,80	29,90%	0,143	36,07%	36,14%
4,0%	0,016	5,00%	5,02%	96,000	204,80	32,50%	0,159	39,03%	39,09%
4,5%	0,018	5,62%	5,65%	95,630	204,10	35,40%	0,177	42,28%	42,35%
5,0%	0,020	6,24%	6,26%	95,220	203,40	37,50%	0,190	44,60%	44,67%
5,5%	0,022	6,86%	6,89%	94,840	202,70	40,00%	0,207	47,33%	47,39%
6,0%	0,024	7,48%	7,51%	94,560	202,20	41,90%	0,220	49,37%	49,42%
6,5%	0,026	8,10%	8,13%	94,100	201,40	43,70%	0,233	51,29%	51,35%
7,0%	0,029	8,71%	8,75%	93,730	200,70	45,30%	0,245	52,97%	53,04%
7,5%	0,031	9,33%	9,36%	93,400	200,10	46,70%	0,255	54,43%	54,49%
8,0%	0,033	9,94%	9,98%	93,100	199,60	48,10%	0,266	55,88%	55,94%
8,5%	0,035	10,56%	10,60%	92,780	199,00	49,30%	0,275	57,12%	57,17%
9,0%	0,037	11,17%	11,21%	92,420	198,40	50,50%	0,285	58,34%	58,39%
9,5%	0,039	11,78%	11,82%	92,100	197,80	51,60%	0,294	59,45%	59,50%
10,0%	0,042	12,39%	12,44%	91,800	197,20	52,70%	0,304	60,55%	60,61%
10,5%	0,044	13,00%	13,05%	91,460	196,60	53,60%	0,311	61,45%	61,50%
11,0%	0,046	13,61%	13,66%	91,120	196,00	54,60%	0,320	62,44%	62,50%
11,5%	0,048	14,22%	14,28%	90,840	195,50	55,60%	0,329	63,43%	63,48%
12,0%	0,051	14,83%	14,89%	90,540	195,00	56,50%	0,337	64,31%	64,36%
12,5%	0,053	15,44%	15,50%	90,300	194,50	57,30%	0,344	65,09%	65,14%
13,0%	0,055	16,05%	16,10%	90,020	194,00	58,10%	0,352	65,86%	65,91%
13,5%	0,058	16,65%	16,71%	89,790	193,60	58,80%	0,358	66,54%	66,59%
14,0%	0,060	17,26%	17,32%	89,560	193,20	59,50%	0,364	67,21%	67,26%
14,5%	0,062	17,86%	17,92%	89,360	192,80	60,10%	0,371	67,78%	67,83%
15,0%	0,065	18,47%	18,54%	89,160	192,50	60,70%	0,377	68,36%	68,40%
15,5%	0,067	19,07%	19,14%	88,940	192,10	61,30%	0,383	68,92%	68,97%
16,0%	0,069	19,68%	19,74%	88,720	191,70	61,90%	0,389	69,49%	69,53%

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EtOH in liquid phase				Boiling temperature		EtOH in vapor phase			
Percent by weight	Mole fraction	Percent, by volume at 60°K.	Percent, by volume at 20°C.	°C.	°F.	Percent, by weight	Mole fraction	Percent, by volume at 60° F.	Percent, by volume at 20°C.
16,5%	0,072	20,28%	20,35%	88,520	191,30	62,40%	0,394	69,96%	70,01%
17,0%	0,074	20,88%	20,95%	88,320	191,00	62,90%	0,399	70,43%	70,48%
17,5%	0,077	21,48%	21,55%	88,110	190,60	63,40%	0,404	70,90%	70,94%
18,0%	0,079	22,08%	22,15%	87,920	190,30	63,90%	0,409	71,36%	71,41%
18,5%	0,082	22,68%	22,75%	87,770	190,00	64,30%	0,413	71,73%	71,78%
19,0%	0,084	23,28%	23,35%	87,620	189,70	64,80%	0,419	72,20%	72,23%
19,5%	0,087	23,88%	23,95%	87,470	189,40	65,20%	0,423	72,56%	72,61%
20,0%	0,089	24,47%	24,55%	87,320	189,20	65,60%	0,427	72,93%	72,97%
20,5%	0,091	25,07%	25,14%	87,020	188,60	66,00%	0,432	73,30%	73,34%
21,0%	0,094	25,66%	25,74%	86,710	188,10	66,40%	0,436	73,66%	73,71%
21,5%	0,096	26,26%	26,32%	86,410	187,50	66,80%	0,440	74,03%	74,07%
22,0%	0,099	26,85%	26,92%	86,110	187,00	67,20%	0,445	74,39%	74,44%
22,5%	0,102	27,44%	27,51%	86,020	186,80	67,50%	0,448	74,66%	74,71%
23,0%	0,105	28,03%	28,10%	85,940	186,70	67,80%	0,452	74,94%	74,97%
23,5%	0,107	28,62%	28,69%	85,850	186,50	68,10%	0,455	75,21%	75,24%
24,0%	0,110	29,21%	29,29%	85,760	186,40	68,40%	0,458	75,48%	75,52%
24,5%	0,113	29,80%	29,88%	85,670	186,20	68,70%	0,462	75,75%	75,78%
25,0%	0,115	30,39%	30,46%	85,580	186,00	68,90%	0,464	75,93%	75,96%
25,5%	0,118	30,97%	31,05%	85,500	185,90	69,20%	0,467	76,20%	76,23%
26,0%	0,121	31,56%	31,62%	85,410	185,70	69,40%	0,470	76,37%	76,41%
26,5%	0,124	32,14%	32,21%	85,320	185,60	69,70%	0,474	76,64%	76,68%
27,0%	0,126	32,72%	32,79%	85,220	185,40	70,00%	0,477	76,91%	76,94%
27,5%	0,129	33,30%	33,38%	85,130	185,20	70,20%	0,480	77,09%	77,12%
28,0%	0,132	33,88%	33,95%	85,040	185,10	70,40%	0,482	77,26%	77,30%
28,5%	0,135	34,46%	34,52%	84,950	184,90	70,70%	0,486	77,53%	77,56%
29,0%	0,138	35,03%	35,10%	84,860	184,70	70,90%	0,488	77,71%	77,74%
29,5%	0,141	35,61%	35,68%	84,790	184,60	71,10%	0,490	77,88%	77,92%
30,0%	0,144	36,18%	36,26%	84,700	184,50	71,30%	0,493	78,06%	78,09%
30,5%	0,147	36,75%	36,82%	84,620	184,30	71,50%	0,495	78,23%	78,26%
31,0%	0,149	37,32%	37,39%	84,540	184,20	71,70%	0,498	78,41%	78,44%
31,5%	0,152	37,89%	37,96%	84,460	184,00	71,90%	0,500	78,58%	78,62%
32,0%	0,155	38,46%	38,54%	84,370	183,90	72,00%	0,502	78,67%	78,71%
32,5%	0,159	39,02%	39,09%	84,280	183,70	72,20%	0,504	78,85%	78,88%
33,0%	0,162	39,59%	39,66%	84,200	183,60	72,40%	0,506	79,02%	79,05%

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33,5%	0,165	40,15%	40,22%	84,120	183,40	72,60%	0,509	79,20%	79,28%
34,0%	0,168	40,72%	40,78%	84,040	183,30	72,80%	0,512	79,37%	79,40%
34,5%	0,171	41,28%	41,35%	83,960	183,10	72,90%	0,513	79,46%	79,49%
35,0%	0,174	41,83%	41,90%	83,870	183,00	73,10%	0,515	79,63%	79,66%
35,5%	0,177	42,39%	42,46%	83,790	182,80	73,20%	0,517	79,72%	79,75%
36,0%	0,180	42,94%	43,01%	83,720	182,70	73,40%	0,519	79,89%	79,92%
36,5%	0,184	43,50%	43,57%	83,650	182,60	73,60%	0,522	80,06%	80,10%
37,0%	0,187	44,05%	44,11%	83,580	182,40	73,70%	0,523	80,15%	80,18%
37,5%	0,190	44,60%	44,67%	83,510	182,30	73,80%	0,524	80,24%	80,27%
38,0%	0,193	45,15%	45,21%	83,440	182,20	74,00%	0,527	80,41%	80,44%
38,5%	0,197	45,70%	45,76%	83,370	182,10	74,20%	0,529	80,58%	80,62%
39,0%	0,200	46,24%	46,30%	83,300	181,90	74,30%	0,531	80,67%	80,70%
39,5%	0,203	46,79%	46,85%	83,240	181,80	74,50%	0,533	80,84%	80,87%
40,0%	0,207	47,33%	47,39%	83,180	181,70	74,60%	0,535	80,93%	80,96%
40,5%	0,210	47,87%	47,94%	83,130	181,60	74,70%	0,536	81,01%	81,04%
41,0%	0,214	48,41%	48,47%	83,070	181,50	74,80%	0,537	81,10%	81,12%
41,5%	0,217	48,94%	49,01%	83,010	181,40	75,00%	0,540	81,27%	81,30%
42,0%	0,221	49,48%	49,54%	82,950	181,30	75,10%	0,541	81,36%	81,38%
42,5%	0,224	50,01%	50,08%	82,890	181,20	75,20%	0,543	81,44%	81,47%
43,0%	0,228	50,54%	50,61%	82,830	181,10	75,40%	0,545	81,61%	81,64%
43,5%	0,231	51,08%	51,14%	82,780	181,00	75,50%	0,547	81,70%	81,78%
44,0%	0,235	51,60%	51,67%	82,720	180,90	75,60%	0,548	81,78%	81,81%
44,5%	0,239	52,13%	52,19%	82,660	180,80	75,70%	0,549	81,87%	81,89%
45,0%	0,242	52,66%	52,72%	82,600	180,70	75,90%	0,552	82,04%	82,07%
45,5%	0,246	53,18%	53,24%	82,540	180,60	76,00%	0,553	82,12%	82,15%
46,0%	0,250	53,70%	53,77%	82,480	180,50	76,10%	0,555	82,21%	82,23%
46,5%	0,254	54,23%	54,29%	82,420	180,40	76,20%	0,556	82,29%	82,32%
47,0%	0,258	54,75%	54,81%	82,370	180,30	76,40%	0,559	82,46%	82,49%
47,5%	0,261	55,26%	55,32%	82,300	180,10	76,50%	0,560	82,54%	82,58%
48,0%	0,265	55,78%	55,84%	82,250	180,00	76,60%	0,562	82,63%	82,66%
48,5%	0,269	56,29%	56,35%	82,190	179,90	76,80%	0,564	82,80%	82,82%
49,0%	0,273	56,81%	56,87%	82,130	179,80	76,90%	0,566	82,88%	82,91%
49,5%	0,277	57,32%	57,38%	82,070	179,70	77,00%	0,567	82,97%	82,99%
50,0%	0,281	57,83%	57,89%	82,020	179,60	77,10%	0,568	83,05%	83,08%

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50,5%	0,285	58,34%	58,39%	81,960	179,50	77,20%	0,570	83,14%	83,16%
51,0%	0,289	58,84%	58,90%	81,910	179,40	77,30%	0,571	83,22%	83,25%
51,5%	0,293	59,35%	59,40%	81,860	179,30	77,40%	0,573	83,30%	83,33%
52,0%	0,297	59,85%	59,91%	81,810	179,30	77,50%	0,574	83,39%	83,42%
52,5%	0,301	60,35%	60,41%	81,760	179,20	77,70%	0,577	83,56%	83,58%
53,0%	0,305	60,85%	60,91%	81,700	179,10	77,80%	0,578	83,64%	83,67%
53,5%	0,310	61,35%	61,41%	81,650	179,00	77,90%	0,580	83,72%	83,75%
54,0%	0,315	61,85%	61,90%	81,600	178,90	78,00%	0,581	83,80%	83,83%
54,5%	0,319	62,34%	62,40%	81,550	178,80	78,10%	0,583	83,89%	83,92%
55,0%	0,323	62,84%	62,89%	81,490	178,70	78,20%	0,584	83,97%	84,00%
55,5%	0,328	63,33%	63,38%	81,440	178,60	78,30%	0,586	84,06%	84,08%
56,0%	0,332	63,82%	63,87%	81,380	178,50	78,40%	0,587	84,14%	84,17%
56,5%	0,337	64,31%	64,36%	81,330	178,40	78,60%	0,590	84,30%	84,33%
57,0%	0,341	64,80%	64,85%	81,280	178,30	78,70%	0,591	84,39%	84,42%
57,5%	0,346	65,28%	65,33%	81,230	178,20	78,80%	0,593	84,47%	84,50%
58,0%	0,351	65,77%	65,82%	81,180	178,10	78,90%	0,594	84,55%	84,58%
58,5%	0,355	66,25%	66,30%	81,130	178,00	79,10%	0,597	84,72%	84,74%
59,0%	0,360	66,73%	66,78%	81,080	177,90	79,20%	0,599	84,80%	84,82%
59,5%	0,365	67,21%	67,26%	81,040	177,90	79,30%	0,600	84,88%	84,91%
60,0%	0,370	67,69%	67,73%	81,000	177,80	79,40%	0,601	84,97%	84,99%
60,5%	0,375	68,17%	68,21%	80,960	177,70	79,60%	0,604	85,13%	85,16%
61,0%	0,380	68,64%	68,69%	80,910	177,60	79,70%	0,606	85,21%	85,24%
61,5%	0,385	69,11%	69,16%	80,860	177,50	79,80%	0,607	85,30%	85,32%
62,0%	0,390	69,59%	69,63%	80,800	177,40	79,90%	0,609	85,38%	85,40%
62,5%	0,395	70,06%	70,10%	80,740	177,30	80,10%	0,612	85,54%	85,57%
63,0%	0,400	70,52%	70,57%	80,642	177,16	80,30%	0,614	85,70%	85,72%
63,5%	0,405	70,99%	71,03%	80,592	177,06	80,40%	0,616	85,79%	85,81%
64,0%	0,410	71,45%	71,50%	80,541	176,97	80,50%	0,618	85,87%	85,89%
64,5%	0,415	71,92%	71,96%	80,491	176,88	80,60%	0,619	85,95%	85,98%
65,0%	0,421	72,38%	72,42%	80,438	176,79	80,80%	0,622	86,11%	86,13%
65,5%	0,426	72,84%	72,88%	80,391	176,70	80,90%	0,624	86,19%	86,22%
66,0%	0,432	73,30%	73,33%	80,341	176,61	81,10%	0,626	86,36%	86,38%
66,5%	0,437	73,76%	73,80%	80,291	176,52	81,20%	0,628	86,44%	86,46%
67,0%	0,443	74,21%	74,25%	80,237	176,43	81,40%	0,631	86,60%	86,62%

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67,5%	0,448	74,66%	74,71%	80,191	176,34	81,50%	0,633	86,68%	86,70%
68,0%	0,454	75,11%	75,15%	80,142	176,26	81,70%	0,636	86,84%	86,87%
68,5%	0,460	75,57%	75,61%	80,093	176,17	81,80%	0,637	86,92%	86,94%
69,0%	0,465	76,02%	76,05%	80,042	176,07	81,90%	0,639	87,00%	87,02%
69,5%	0,471	76,46%	76,50%	80,000	176,00	82,10%	0,642	87,16%	87,18%
70,0%	0,477	76,91%	76,94%	79,952	175,91	82,20%	0,644	87,24%	87,27%
70,5%	0,483	77,35%	77,39%	79,906	175,83	82,40%	0,647	87,40%	87,42%
71,0%	0,489	77,79%	77,82%	79,862	175,75	82,60%	0,650	87,56%	87,58%
71,5%	0,495	78,23%	78,27%	79,813	175,66	82,70%	0,652	87,64%	87,67%
72,0%	0,502	78,67%	78,71%	79,767	175,58	82,90%	0,655	87,80%	87,82%
72,5%	0,508	79,11%	79,14%	79,721	175,50	83,10%	0,658	87,96%	87,98%
73,0%	0,514	79,54%	79,57%	79,683	175,43	83,30%	0,661	88,12%	88,14%
73,5%	0,520	79,98%	80,01%	79,630	175,33	83,40%	0,663	88,20%	88,22%
74,0%	0,527	80,41%	80,44%	79,585	175,25	83,60%	0,666	88,36%	88,38%
74,5%	0,533	80,84%	80,87%	79,541	175,17	83,80%	0,669	88,52%	88,54%
75,0%	0,540	81,27%	81,30%	79,505	175,11	84,00%	0,672	88,68%	88,70%
75,5%	0,547	81,70%	81,72%	79,452	175,01	84,10%	0,674	88,76%	88,78%
76,0%	0,553	82,12%	82,15%	79,404	174,93	84,30%	0,678	88,92%	88,93%
76,5%	0,560	82,54%	82,57%	79,362	174,85	84,50%	0,681	89,07%	89,09%
77,0%	0,567	82,97%	82,99%	79,316	174,77	84,70%	0,684	89,23%	89,25%
77,5%	0,574	83,39%	83,42%	79,271	174,69	84,90%	0,687	89,39%	89,40%
78,0%	0,581	83,80%	83,83%	79,227	174,60	85,10%	0,691	89,54%	89,56%
78,5%	0,588	84,22%	84,25%	79,183	174,53	85,20%	0,693	89,62%	89,64%
79,0%	0,595	84,64%	84,66%	79,133	174,44	85,40%	0,696	89,78%	89,79%
79,5%	0,603	85,05%	85,07%	79,094	174,37	85,60%	0,699	89,93%	89,95%
80,0%	0,610	85,46%	85,48%	79,050	174,29	85,80%	0,703	90,09%	90,10%
80,5%	0,618	85,87%	85,89%	79,008	174,21	86,10%	0,708	90,32%	90,33%
81,0%	0,625	86,27%	86,30%	78,968	174,14	86,30%	0,711	90,47%	90,48%
81,5%	0,633	86,68%	86,70%	78,925	174,07	86,50%	0,715	90,62%	90,64%
82,0%	0,641	87,08%	87,11%	78,879	173,98	86,80%	0,720	90,86%	90,87%
82,5%	0,648	87,48%	87,51%	78,844	173,92	87,00%	0,724	91,01%	91,02%
83,0%	0,656	87,88%	87,91%	78,806	173,85	87,20%	0,728	91,16%	91,17%
83,5%	0,664	88,28%	88,30%	78,767	173,78	87,50%	0,733	91,39%	91,40%
84,0%	0,673	88,68%	88,70%	78,723	173,70	87,70%	0,737	91,54%	91,56%

Table 1 – Equilibrium Compositions for the System Ethanol-Water at 1 Atmosphere

EtOH in liquid phase				Boiling temperature		EtOH in vapor phase			
Percent by weight	Mole fraction	Percent, by volume at 60°K.	Percent, by volume at 20°C.	°C.	°F.	Percent, by weight	Mole fraction	Percent, by volume at 60° F.	Percent, by volume at 20°C.
84,5%	0,681	89,07%	89,09%	78,688	173,640	88,00%	0,741	91,77%	91,78%
85,0%	0,689	89,46%	89,48%	78,645	173,560	88,20%	0,746	91,92%	91,93%
85,5%	0,698	89,85%	89,87%	78,613	173,500	88,50%	0,751	92,14%	92,16%
86,0%	0,706	90,24%	90,26%	78,575	173,440	88,80%	0,756	92,37%	92,38%
86,5%	0,715	90,62%	90,64%	78,543	173,380	89,10%	0,762	92,59%	92,60%
87,0%	0,724	91,01%	91,02%	78,530	173,350	89,40%	0,767	92,81%	92,82%
87,5%	0,733	91,39%	91,40%	78,475	173,260	89,70%	0,773	93,04%	93,04%
88,0%	0,741	91,77%	91,78%	78,445	173,200	90,00%	0,779	93,25%	93,27%
88,5%	0,751	92,14%	92,16%	78,411	173,140	90,30%	0,784	93,47%	93,48%
89,0%	0,760	92,52%	92,53%	78,385	173,090	90,60%	0,790	93,69%	93,70%
89,5%	0,769	92,89%	92,90%	78,350	173,030	90,90%	0,796	93,91%	93,92%
90,0%	0,779	93,25%	93,26%	78,323	172,980	91,20%	0,802	94,13%	94,13%
90,5%	0,788	93,62%	93,63%	78,295	172,930	91,60%	0,809	94,41%	94,42%
91,0%	0,798	93,98%	93,99%	78,270	172,890	91,90%	0,816	94,63%	94,63%
91,5%	0,808	94,34%	94,35%	78,265	172,880	92,30%	0,824	94,91%	94,92%
92,0%	0,818	94,70%	94,71%	78,259	172,870	92,60%	0,831	95,13%	95,13%
92,5%	0,828	95,05%	95,06%	78,241	172,830	93,00%	0,839	95,41%	95,42%
93,0%	0,839	95,41%	95,41%	78,227	172,810	93,40%	0,847	95,69%	95,69%
93,5%	0,849	95,76%	95,76%	78,211	172,780	93,80%	0,855	95,97%	95,97%
94,0%	0,860	96,10%	96,11%	78,195	172,750	94,20%	0,864	96,24%	96,24%
94,5%	0,871	96,45%	96,45%	78,186	172,730	94,70%	0,874	96,58%	96,58%
95,0%	0,881	96,79%	96,79%	78,177	172,720	95,10%	0,883	96,86%	96,86%
95,5%	0,892	97,13%	97,13%	78,174	172,713	95,55%	0,893	97,16%	97,16%
95,6%	0,894	97,18%	97,18%	78,174	172,713	95,58%	0,894	97,18%	97,18%
96,0%	0,903	97,46%	97,46%	78,174	172,713	95,88%	0,901	97,38%	97,38%
96,5%	0,915	97,79%	97,79%	78,179	172,720	96,30%	0,911	97,66%	97,66%
97,0%	0,927	98,12%	98,12%	78,181	172,730	96,80%	0,923	97,99%	97,98%
97,5%	0,938	98,44%	98,44%	78,191	172,740	97,30%	0,934	98,31%	98,32%
98,0%	0,950	98,76%	98,76%	78,205	172,770	97,80%	0,946	98,63%	98,63%
98,5%	0,963	99,08%	99,07%	78,222	172,800	98,40%	0,960	99,01%	99,01%
99,0%	0,975	99,39%	99,39%	78,243	172,840	98,90%	0,972	99,32%	99,32%
99,5%	0,987	99,70%	99,70%	78,270	172,890	99,40%	0,985	99,63%	99,63%
100,0%	1,000	100,00%	100,00%	78,300	172,940	100,00%	1,000	100,00%	100,00%