

## Ethanol percentages based on density and %(m/m)

%(m/m)	Density	Difference	one-fifth	%plus 1	%plus 2	%plus 3	%plus 4	%plus 5
5	0.98938	0.00751	0.00150	0.98788	0.98638	0.98487	0.98337	0.98187
10	0.98187	0.00673	0.00135	0.98052	0.97918	0.97783	0.97649	0.97514
15	0.97514	0.00650	0.00130	0.97384	0.97254	0.97124	0.96994	0.96864
20	0.96864	0.00696	0.00139	0.96725	0.96586	0.96446	0.96307	0.96168
25	0.96168	0.00786	0.00157	0.96011	0.95854	0.95696	0.95539	0.95382
30	0.95382	0.00888	0.00178	0.95204	0.95027	0.94849	0.94672	0.94494
35	0.94494	0.00976	0.00195	0.94299	0.94104	0.93908	0.93713	0.93518
40	0.93518	0.01046	0.00209	0.93309	0.93100	0.92890	0.92681	0.92472
45	0.92472	0.01088	0.00218	0.92254	0.92037	0.91819	0.91602	0.91384
50	0.91384	0.01126	0.00225	0.91159	0.90934	0.90708	0.90483	0.90258
55	0.90258	0.01145	0.00229	0.90029	0.89800	0.89571	0.89342	0.89113
60	0.89113	0.01165	0.00233	0.88880	0.88647	0.88414	0.88181	0.87948
65	0.87948	0.01182	0.00236	0.87712	0.87475	0.87239	0.87002	0.86766
70	0.86766	0.01202	0.00240	0.86526	0.86285	0.86045	0.85804	0.85564
75	0.85564	0.01220	0.00244	0.85320	0.85076	0.84832	0.84588	0.84344
80	0.84344	0.01249	0.00250	0.84094	0.83844	0.83595	0.83345	0.83095
85	0.83095	0.01298	0.00260	0.82835	0.82576	0.82316	0.82057	0.81797
90	0.81797							

- 1 Determine where your density fits between the ranges shown, e.g., <50% but >45%
  - 2 Divide the different between the 45% and the 50% densities by 5.
  - 3 Subtract this 1/5 incremental value from the 45% value to get the 46% density.
  - 4 Subtract the 1/5 incremental value from the 46% value to get the 47% density.
  - 5 Check the columns to the right (e.g., %plus 1) to get the new 46% density.
  - 6 Use the new density, which should be close to your value for amount of alcohol.  
You may need to interpolate additionally to get closer to your density value.
- OK?