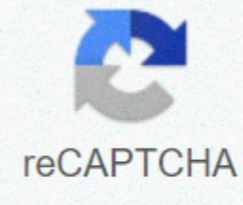




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Density of alcohol kg/m3

This is a table density (kg/l) and corresponding concentration (weight,% or volume%) of ethanol (C2H5OH) in water at 20 °C. The table is taken from Perry's Chemical Engineer's Manual by Seventh Edition Robert H. Perry Don Green. Enter one of the concentration density in volume % or concentration in the weight % of ethanol in the water to calculate the other two values. Please enter only one value and leave it calculated as blank. In practice, density is determined by using a hydrometer or by weighing the known solution volume. This updated calculator has an ethanol content as a parameter so that it can be calculated or valued. Here's a link for those who want an old calculator. Click here to view the concentration calculator, additional density, mass density, equation mass, volumetric area, algebra, volumetric area, volumic area areal, areic, surface, superficial lines, linear, linear alcohol weighing 789.3 kg/m³ (49.27439 lb/ft³) Search results, including links to various calculator pages related to each item found. Use * as a wildcard character for partial matching, or put the search string in double quotation marks () to match every time the density ρ has a typical unit [kg/m3] or [lb/ft3] and is determined by the ratio of mass to volume of the substance: ρ = m / V [1] where m = typical unit mass [kg] or [lb] V = typical unit volume [m3] or [ft3] specific weight γ typically units [N/m3] or [lb / ft3]. Determined by the ratio of weight to volume of the substance: γ = (m*g)/V =ρ*g[2] at g = acceleration due to the typical unit gravity [m/m/s2] and the value on Earth usually gets to 9.9. Tabulated value of ethanol density and specific weight at the specified temperature and pressure (SI and Imperial units), as well as converting units, density will get lower than the figure. The online ethanol density calculator below calculator can be used to assess the density and weight of a specific liquid ethanol at a given temperature. The output density is obtained in kilograms. /m3, lb/ft3, lb/gal (US LIQ) and sl/ft3 specific weights are given as N/M3 and lbf/ft3. return to the maximum density of liquid ethanol at different temperatures (°C) and get pressure: liquid ethanol density is almost the same for all pressures up to 100 bara and liquid density at equilibrium pressure (as used in the calculator above). Can be used for the most practical purposes. density of ethanol vapor (singel phase) at different temperatures and gain si pressures and units: Back to top Density and specific weight of ethanol at given temperatures and pressures: State Temperature Pressure Density Specific weight [K] [°C] [°F] [MPa] [bara] [psia] [mol/dm3] [g/l],[kg/m3] [lbm/ft3] [sl/ft3] [N/m3] [lbf/ft3] Liquid at equilibrium 250 -23.2 -9.7 0.000270 0.00270 0.0392 17.91 825.2 51.51 1.601 8092 51.5 280 6.9 44.3 0.00258 0.0258 0.375 17.38 800.5 49.97 1.553 7850 50.0 310 36.9 98.3 0.0153 0.153 2.22 16.83 775.3 48.40 1.504 7603 48.4 340 66.9 152 0.0635 0.635 9.22 16.23 747.8 46.68 1.451 7333 46.7 370 96.9 206 0.2021 2.021 29.30 15.56 716.7 44.74 1.391 7029 44.7 400 127 260 0.5245 5.245 76.07 14.77 680.6 42.49 1.321 6675 42.5 423.9 151 303 1.000 10.00 145.0 14.05 647.2 40.41 1.256 6347 40.4 430 157 314 1.165 11.65 169.0 13.84 637.7 39.81 1.237 6254 39.8 460 187 368 2.292 22.92 332.4 12.68 584.0 36.46 1.133 5727 36.5 490 217 422 4.095 40.95 594.0 11.01 507.1 31.66 0.9839 4973 31.7 501.4 228 443 5.000 50.00 725.2 10.01 461.3 28.80 0.8951 4524 28.8 513.9 241 465 6.148 61.48 891.7 5.991 276.0 17.23 0.5355 2707 17.2 Gas at equilibrium 250 -23.2 -9.7 0.000270 0.00270 0.039 0.00013 0.0060 0.00037 0.00001 0.059 0.00037 280 6.9 44.3 0.00258 0.0258 0.375 0.00111 0.0512 0.00320 0.00010 0.502 0.00320 298.2 25.0 77.0 0.0080 0.0800 1.16 0.00315 0.145 0.00905 0.00028 1.42 0.00905 310 36.9 98.3 0.0153 0.153 2.22 0.00598 0.276 0.0172 0.00053 2.70 0.0172 340 66.9 152 0.0635 0.635 9.22 0.02298 1.058 0.0661 0.0021 10.4 0.0661 370 96.9 206 0.2021 2.021 29.30 0.06904 3.181 0.1986 0.0062 31.2 0.1986 400 127 260 0.5245 5.245 76.07 0.1739 8.009 0.5000 0.0155 78.5 0.5000 423.9 151 303 1.000 10.00 145.0 0.3310 15.25 0.9518 0.0296 150 0.9518 0.0296 150 0.952 500 227 440 1 10 145 0.2557 11.78 0.7353 0.0229 116 0.735 600 327 620 1 10 145 0.2044 9.415 0.587 8 0.0183 92.3 0.588 Liquid 300 26.9 80.3 5 50 725 17.11 788.3 49.21 1.530 7731 49.21 400 127 260 5 985 6.272 513.9 241 465 6.148 61.48 891.7 5.991 276.0 17.23 0.5355 2707 17.23 Liquid 300 26.9 80.3 0.1 1 14.5 17.02 783.9 48.94 1.521 7688 48.94 351.1 77.9 172 0.1 1 14.5 15.99 736.8 46.00 1.430 7226 46.00 Gas 351.1 77.9 172 0.1 1 14.5 0.03531 1.627 0.1016 0.0032 16.0 0.102 400 127 260 0.1 1 14.5 0.03058 1.409 0.0879 0.0027 13.8 0.088 500 227 440 0.1 1 14.5 0.02419 1.114 0.0696 0.0022 10.9 0.070 600 327 620 0.1 1 14.5 0.02009 0.93 0.0578 0.0018 9.07 0.058 Liquid 300 26.9 80.3 1 10 145 17.03 784.8 48.99 1.523 7696 48.99 400 127 260 1 10 145 14.80 681.6 42.55 1.323 6684 42.55 423.9 151 303 1 10 145 14.05 647.2 40.41 1.256 6347 40.41 Gas 423.9 151 303 1 10 145 0.3310 15.25 0.9518 0.0296 150 0.952 500 227 440 1 10 145 0.2557 11.78 0.7353 0.0229 116 0.735 600 327 620 1 10 145 0.2044 9.415 0.587 8 0.0183 92.3 0.588 Liquid 300 26.9 80.3 5 50 725 17.11 788.3 49.21 1.530 7731 49.21 400 127 260 5 50 725 14.96 689.3 43.03 1.337 6759 43.03 501.4 228 443 5 50 725 10.01 28.80 0.8951 4524 28.80 Gas 501.4 228 443 5 50 725 2.181 100.5 6.272 0.1950 985 6.272 600 327 620 5 50 725 1.137 52.39 3.271 0.1017 514 3.271 Liquid 300 26.9 80.3 10 100 1450 17.20 792.5 49.48 1.538 7772 49.48 400 127 260 10 100 1450 15.15 697.8 43.56 1.354 6843 43.56 500 227 440 10 100 1450 11.52 530.8 33.14 1.030 5205 33.14 Supercritical phase 600 327 620 10 100 1450 13.60 626.6 39.12 1.216 6145 39.12 Liquid 300 26.9 80.3 200 2000 29000 19.24 886.6 55.35 1.720 8694 55.35 400 127 260 200 2000 29000 18.14 835.6 52.17 1.621 8195 52.17 500 227 440 200 2000 29000 16.88 777.6 48.54 1.509 7625 48.54 Supercritical phase 600 327 620 200 2000 29000 15.51 714.3 44.59 1.386 7005 44.59 Back to top Phase diagram of ethanol Density units conversion: Density converter kilogram/cubic meter [kg/m3] = gram/liter [g/l], kilogram/liter [kg/l] = gram/cubic centimeter [g/cm3]= ton(metric)/cubic meter [t/m3], once/gallon(US liquid) [oz/gal(US liq)] pound/cubic inch [lb/in3], pound/cubic foot [lb/ft3], pound/gallon(UK) [lb/gal(UK)], pound/gallon(US liquid) [lb/gal(US liq)], slug/cubic foot [sl/ft3], ton(short)/cubic yard [ton(short)/yd3], ton(long)/cubic yard [yd3] 1 g/cm3 = 1 kg/l = 1000 kg/m3 = 62.428 lb/ft3 = 0.03613 lb/in3 = 1.9403 sl/ft3 = 10.0224 lb/gal(UK) = 8.3454 lb/gal(US liq) = 0.5780 oz/in3 = 0.7525 ton(long)/yr3 1 g/l = 1 kg/m3 = 0.001 kg/l = 0.000001 kg/cm3 = 0.001 g/cm3 = 0.99885 oz/ft3 = 0.0005780 oz/in3 = 0.16036 oz/gal(UK) = 0.1335 oz/gal(US liq) = 0.06243 lb/ft3 = 3.6127x10-5 lb/in3 = 1.6856 lb/yd3 = 0.010022 lb/gal(UK) = 0.0083454 lb/gal(US liq) = 0.0007525 ton(long)/yd3 = 0.0008428 ton(short)/yd3 1 kg/l = 1 g/cm3 = 1000 kg/m3 = 62.428 lb/ft3 = 0.03613 lb/in3 = 1.9403 sl/ft3 = 8.3454 lb/gal(US liq) = 0.5780 oz/in3 = 0.7525 ton(long)/yr3 1 kg/m3 = 1 g/l = 0.001 kg/l = 0.000001 kg/cm3 = 0.001 g/cm3 = 0.99885 oz/ft3 = 0.0005780 oz/in3 = 0.16036 oz/gal(UK) = 0.1335 oz/gal(US liq) = 0.06243 lb/ft3 = 3.6127x10-5 lb/in3 = 1.6856 lb/yd3 = 0.010022 lb/gal(UK) = 0.008345 lb/gal(US liq) = 0.0007525 ton(long)/yd3 = 0.0008428 ton(short)/yd3 1 lb/ft3 = 27 lb/yd3 = 0.009259 oz/in3 = 0.0005787 lb/in3 = 0.01602 g/cm3 = 0.1605 lb/gal(UK) = 0.1349 lb/gal(US liq) = 2.5687 oz/gal(UK) = 2.1389 oz/gal(US liq) = 0.01205 ตัน (ยว)/yd3 = 0.0135 ตัน (สั้น)/yd3 1 ปอนด์/แกลลอน (สหรัฐอเมริกาจํากัด) = 0.8327 ปอนด์/แกลลอน (LIQ สหรัฐ) = 16 ออุนซ์/แกลลอน (สหรัฐอเมริกาจํากัด) = 13.323 ออุนซ์ / แกลลอน (LIQ สหรัฐ) = 168.179 ปอนด์ / yd3 = 6.2288 ปอนด์ / ฟุต3 = 0.003605 lb/in3=0.05767ออุนซ์/in3=99.7764กิโลกรัม/m3=0.09977g/cm3=0.07508ตัน(ยว) / yd3 = 0.08409 ตัน (สั้น)/yd3 1 ปอนด์/แกลลอน (LIQ สหรัฐ) = 1.2009 = 19.215 19.215 = 16 oz/gal(US liq) = 201.97 lb/yd3 = 7.4805 lb/ft3 = 0.004329 lb/in3 = 0.06926 oz/m3 = 119.826 kg/m3 = 0.1198

g/cm³ = 0.09017 ton(long)/yd³ = 0.1010 ton(short)/yd³ 1 lb/in³ = 1728 lb/ft³ = 46656 lb/yd³ = 16 oz/in³ = 27680 kg/m³ = 27.680 g/cm³ = 277.419 lb/gal(UK) = 231 lb/gal(US liq) =4438.7 oz/gal(UK) = 3696 oz/gal(US liq) = 20.8286 ton(long)/yd³ = 23.3280 ton(short)/yd³ 1 oz/gal(UK) = 0.8327 oz/gal(US liq) = 6.2360 kg/m³ = 6.2288 oz/ft³ = 0.3893 lb/ft³ = 10.5112 lb/yd³ 1 oz/gal(US liq) = 1.2009 oz/gal(UK) = 7.4892 kg/m³ = 7.4805 oz/ft³ = 0.4675 lb/ft³ = 12.6234 lb/yd³ 1 sl/ft³ = 515.3788 kg/m³ = 514.7848 oz/ft³ = 0.2979 oz/in³ = 32.1741 lb/ft³ = 82.645 oz/gal(UK) = 68.817 oz/gal(US liq) 1 ton(long)/yd³ = 1.12 ton(short)/yd³ = 1328.94 kg/m³ = 0.7682 oz/in³ = 82.963 lb/ft³ = 2240 lb/ yd³ = 2.5786 sl/ft³ = 13.319 ปอนด์/แกลลอน (สำหรับของเหลว) = 11.0905 ปอนด์/แกลลอน (LIQ สหรัฐ) 1 สตัน (สั้น)/yd³ = 0.8929 สตัน (ยาว)/yd³ = 1186.55 กก./ลบ.ม.859 oz/in³ = 74.074 lb/ft³ = 2000 ปอนด์/yd³ = 2.3023 sl/ft³ = 11.8921 Pounds/Gallons (UK) = 9.9023 pounds/gallon (US LIQ) back to top en search tag: ethanol ethyl alcohol specific pressure density

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