Density Meter, Measuring Alcohol Concentration

Density Meter Application, Determination of alcohol concentration by measur

Application Report – Alcohol Measurement Using Rudolph Research Analytical DDM 2911 Plu

Introduction:

Pycnometers, hydrometers, and digital density meters are officially recognized methods for the determi control and to insure proper product labeling for declaration of alcohol content for the payment of tax.

The DDM 2911 Plus Digital Density Meter provides the easiest means to measure the density of the alc measurement into the alcohol concentration. The measurement is fast, accurate, and highly reproduci a 2 ml sample are required to yield an accuracy of ±0.01 % vol/vol alcohol.

Pycnometers are not as accurate and are very time consuming and requires well trained laboratory per reproducible and prone to much human error

Hydrometers are much less accurate then both the DDM 2911 Plus Density Meter and pycnometers. W they require very large samples sizes between 300 to 500 ml per measurement and often need off-site

Rudolph Research Analytical DDM 2911 Plus Density Meter:

Operator training is minimal using the DDM 2911 Plus Density Meter as the most common error made to detect, and easy to avoid. Alcohol measurements require very high precision and the presence of e precision greatly. However, Rudolph Research Analytical's exclusive VideoView™ ensures each sampl

Once the DDM 2911 Plus has been properly filled with a small 1 ml to 2 ml sample, the temperature of t within ±0.03 ºC of the required measurement temperature. The DDM 2911 Plus Density Meter will then automatically do the conversion of density to alcohol concentration using one or more of the officially re AOAC, or IUPAC. Alcohol concentrations may be determined in the full range of 0 to 100% with a singl % vol/vol, %m/m, %wt/wt, or ºProof. The measurement results are displayed on the large 10.4 inch colo defined location on your network. The results may also be sent to any networked printer and can be us Sample identification may be input manually or by the use of a bar code scanner. Additionally, the DDM Measurement" mode whereas the same sample can automatically be measured any number of times de these measurement results will also be available on the display, can be printed out, and/or saved on yo

Tags: alcohol, Alcohol Density, AOAC, benchtop, calibration, concentration, density, Density Meter, density-meters, digital Research
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