Reagecon

# Spirits

Beverage Standards

# Reagents and Standards for The Analysis of Spirit Drinks

## As per Official Methods of Analysis of AOAC International, 19th Edition, 2012 Volume 2. Dr George W. Latimer, Jr.

### AOAC Official Method 950.05 Esters and Aldehydes in Distilled Liquors

| Chapter | Product No. | Description | Pack Size |
|---|---|---|---|
| 26.1.24A.a | T20051 | Analytical Volumetric Solution Sodium Thiosulphate 0.05N, 0.05M | 1L |
| 26.1.24A.b | I2005F | Analytical Volumetric Solution Iodine 0.1N, 0.05M | 1L |

### AOAC Official Method 972.07 Esters in Distilled Liquors

| Chapter | Product No. | Description | Pack Size |
|---|---|---|---|
| 26.1.25B.a | H24001 | Analytical Volumetric Solution Hydrochloric Acid 4N, 4M | 1L |
| 26.1.25B.b | H24002 | Analytical Volumetric Solution Hydrochloric Acid 4N, 4M | 1L |

### AOAC Official Method958.04 Methanol in Distilled Liquors

| Chapter | Product No. | Description | Pack Size |
|---|---|---|---|
| 26.1.34A.a | 1070902 | European Pharmacopoeia Reagent Potassium Permanganate Solution | 1L |

## Commission Regulation (EC) No 2870/2000 of 19 December 2000 laying down Community reference methods for the analysis of spirits drinks

### Method A: Determination of Real Alcoholic Strength by Volume of Spirit Drinks - Measurement by Pycnometry

| Chapter | Product No. | Description | Pack Size |
|---|---|---|---|
| A.2.1 | NACL2WV5 | Sodium Chloride 2% | 500ml |

### Method C: Determination of Real Alcoholic Strength by Volume of Spirit Drinks - Measurement by Densimetry using Hydrostatic Balance

| Chapter | Product No. | Description | Pack Size |
|---|---|---|---|
| C.2.1 | S30WW1 | Sodium Hydroxide 30% w/w (40% w/v) | 1L |


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## AOAC Official Method 963.09 Sodium in Distilled Liquors. Flame Photometric Method. Industrial Flame Photometry Standards

| Product No. | Description | Concentration | Pack size |
|---|---|---|---|
| FIBA1 | Barium | 1,000ppm | 500ml |
| FIBA3 | Barium | 3,000ppm | 500ml |
| FICA1 | Calcium | 1,000ppm | 500ml |
| FICA2 | Calcium | 2,000ppm | 500ml |
| FICS1 | Cesium | 1,000ppm | 500ml |
| FILI1 | Lithium | 1,000ppm | 500ml |
| FINA1 | Sodium | 1,000ppm | 500ml |
| FIK1 | Potassium | 1,000ppm | 500ml |
| FISR1 | Strontium | 1,000ppm | 500ml |
| FIRB1 | Rubidium | 1,000ppm | 500ml |

## Multi-Element Linearity Standards

| Product Number | Description | Concentration | Pack Size |
|---|---|---|---|
| FPLE5 | | Low | 500ml |
| | Barium | 28.8ppm | |
| | Calcium | 18.2ppm | |
| | Lithium | 1.91ppm | |
| | Potassium | 2.09ppm | |
| | Sodium | 2.15ppm | |
| FPME5 | | Medium | 500ml |
| | Barium | 105ppm | |
| | Calcium | 52.4ppm | |
| | Lithium | 5.42ppm | |
| | Potassium | 5.37ppm | |
| | Sodium | 5.67ppm | |
| FPHE5 | | High | 500ml |
| | Barium | 510ppm | |
| | Calcium | 112ppm | |
| | Lithium | 10.0ppm | |
| | Potassium | 11.4ppm | |
| | Sodium | 11.3ppm | |
| FPHK3 | Combination of FPLE5, FPME5 & FPHE5 | As above | 3 x 500ml |


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## AOAC Official Method 970.12 Iron in Distilled Liquors. Atomic Absorption Spectrophotometric Method.

| Description | Concentration 1,000ppm | Concentration 10,000ppm |
|---|---|---|
| Aluminium in 0.5M Nitric Acid | AAALH | |
| Aluminium in 1M Nitric Acid | | AAALM |
| Antimony in Water | AASBH | AASBM |
| Arsenic (III) in 1M Hydrochloric Acid | AAASH | AAASM |
| Arsenic (V) in 1M Nitric Acid | AAAS05H | |
| Barium in 0.5M Nitric Acid | AABAH | |
| Barium in 1M Nitric Acid | | AABAM |
| Beryllium in 1M Hydrochloric Acid | AABEH | AABEM |
| Bismuth in 0.5M Nitric Acid | AABIH | |
| Bismuth in 1M Nitric Acid | | AABIM |
| Boron in Water | AAB-H | AAB-M |
| Cadmium in 0.5M Nitric Acid | AACDH | |
| Cadmium in 1M Nitric Acid | | AACDM |
| Calcium in 0.5M Nitric Acid | AACAH | |
| Calcium in 1M Nitric Acid | | AACAM |
| Cesium in 1M Nitric Acid | AACSH | AACSM |
| Chromium in 0.5M Nitric Acid | AACRH | |
| Chromium in 1M Nitric Acid | | AACRM |
| Cobalt in 0.5M Nitric Acid | AACOH | |
| Cobalt in 1M Nitric Acid | | AACOM |
| Copper in 0.5M Nitric Acid | AACUH | |
| Copper in 1M Nitric Acid | | AACUM |
| Gadolinium in 1M Hydrochloric Acid | AAGDH | AAGDM |
| Gallium in 1M Hydrochloric Acid | AAGAH | AAGAM |
| Gold in 2M Hydrochloric Acid | AAAUH | AAAUM |
| Indium in 1M Nitric Acid | AAINH | AAINM |
| Iridium in 10% Hydrochloric Acid | AAIRH | AAIRM |
| Iron in 0.5M Nitric Acid | AAFEH | |
| Iron in 1M Nitric Acid | | AAFEM |
| Lanthanum in 1M Nitric Acid | AALAH | AALAM |
| Lead in 0.5M Nitric Acid | AAPBH | |
| Lead in 1M Nitric Acid | | AAPBM |
| Lithium in 0.5M Nitric Acid | AALIH | |
| Lithium in 1M Nitric Acid | | AALIM |
| Magnesium in 0.5M Nitric Acid | AAMGH | |
| Magnesium in 1M Nitric Acid | | AAMGM |
| Manganese in 1M HCl | AAMNH | AAMNM |
| Mercury in 0.5M Nitric Acid | AAHGH | |
| Mercury in 1M Nitric Acid | | AAHGM |
| Molybdenum in Water | AAMOH | AAMOM |
| Nickel in 0.5M Nitric Acid | AANIH | |


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| Description | Concentration 1,000ppm | Concentration 10,000ppm |
|---|---|---|
| Nickel in 1M Nitric Acid | | AANIM |
| Palladium in 1M Hydrochloric Acid | AAPDH | AAPDM |
| Phosphorus in Water | AAP-H | AAP-M |
| Platinum in 1M Hydrochloric Acid | AAPTH | AAPTM |
| Potassium in 0.5M Nitric Acid | AAK-H | |
| Potassium in 1M Nitric Acid | | AAK-M |
| Rhodium in 1M Nitric Acid | AARHH | AARHM |
| Selenium in 0.5M Nitric Acid | AASEH | |
| Selenium in 1M Nitric Acid | | AASEM |
| Silicon in Water | AASIH | AASIM |
| Silver in 0.5M Nitric Acid | AAAGH | |
| Silver in 1M Nitric Acid | | AAAGM |
| Sodium in 0.5M Nitric Acid | AANAH | |
| Sodium in 1M Nitric Acid | | AANAM |
| Strontium in 0.5M Nitric Acid | AASRH | |
| Strontium in 1M Nitric Acid | | AASRM |
| Sulphur in Water | AAS-H | AAS-M |


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## AOAC Official Method 950.04 Alcohol by Volume in Distilled Liquors.
## ISO Guide 34 Sucrose in Water standards- 12 Week Shelf Life

| Product No. | % Sucrose in water (w/w) @ 20°C | *Nominal Brix % ** | Nominal Refractive Index @ 20°C* | Pack size |
|---|---|---|---|---|
| BS00 | 0% Sucrose | 0% Brix | 1.332986 | 15ml |
| BS05 | 5% Sucrose | 5% Brix | 1.340264 | 15ml |
| BS07 | 7% Sucrose | 7% Brix | 1.343253 | 15ml |
| BS10 | 10% Sucrose | 10% Brix | 1.347824 | 15ml |
| BS112 | 11.2% Sucrose | 11.2% Brix | 1.349682 | 15ml |
| BS115 | 11.5% Sucrose | 11.5% Brix | 1.350149 | 15ml |
| BS12 | 12% Sucrose | 12% Brix | 1.350930 | 15ml |
| BS125 | 12.5% Sucrose | 12.5% Brix | 1.351714 | 15ml |
| BS15 | 15% Sucrose | 15% Brix | 1.355679 | 15ml |
| BS20 | 20% Sucrose | 20% Brix | 1.363842 | 15ml |
| BS25 | 25% Sucrose | 25% Brix | 1.372328 | 15ml |
| BS30 | 30% Sucrose | 30% Brix | 1.381149 | 15ml |
| BS35 | 35% Sucrose | 35% Brix | 1.390322 | 15ml |
| BS40 | 40% Sucrose | 40% Brix | 1.399860 | 15ml |
| BS45 | 45% Sucrose | 45% Brix | 1.409777 | 15ml |
| BS50 | 50% Sucrose | 50% Brix | 1.420087 | 15ml |
| BS55 | 55% Sucrose | 55% Brix | 1.430800 | 15ml |
| BS60 | 60% Sucrose | 60% Brix | 1.441928 | 15ml |

**The nominal Brix and Refractive Index values are taken from the ICUMSA published tables*


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## AOAC Official Method 945.06 Specific Gravity (Apparent) of Distilled Liquor. Pyconometer Method.
## AOAC Official Method 942.06 Alcohol by volume in Distilled Liquors. Pyconometer Method.
## AOAC Official Method 945.07 Alcohol by Weight in Distilled Liquors. Pyconometer Method.
## Density Standards at 15°C

| Product No. | Description | Pack size |
|---|---|---|
| DEN15010PY | Density Standard 0.6960g/ml @15°C | 100ml |
| DEN15020PY | Density Standard 0.7073g/ml @15°C | 100ml |
| DEN15030 PY | Density Standard 0.7184g/ml @15°C | 100ml |
| DEN15040PY | Density Standard 0.7298g/ml @15°C | 100ml |
| DEN15050PY | Density Standard 0.7411g/ml @15°C | 100ml |
| DEN15060PY | Density Standard 0.7524g/ml @15°C | 100ml |
| DEN15070PY | Density Standard 0.7721g/ml @15°C | 100ml |
| DEN15080PY | Density Standard 0.7933g/ml @15°C | 100ml |
| DEN15090PY | Density Standard 0.8168g/ml @15°C | 100ml |
| DEN15100PY | Density Standard 0.8428g/ml @15°C | 100ml |
| DEN15110PY | Density Standard 0.8715g/ml @15°C | 100ml |
| DEN15120PY | Density Standard 0.9135g/ml @15°C | 100ml |
| DEN15130PY | Density Standard 0.9514g/ml @15°C | 100ml |
| DEN15140PY | Density Standard 1.0040g/ml @15°C | 100ml |
| DEN15150PY | Density Standard 1.0337g/ml @15°C | 100ml |
| DEN15160PY | Density Standard 1.0828g/ml @15°C | 100ml |
| DEN15170PY | Density Standard 1.1661g/ml @15°C | 100ml |
| DEN15180PY | Density Standard 1.2498g/ml @15°C | 100ml |
| DEN15190PY | Density Standard 1.3318g/ml @15°C | 100ml |
| DEN15200PY | Density Standard 1.4152g/ml @15°C | 100ml |
| DEN15210PY | Density Standard 1.5820g/ml @15°C | 100ml |
| DEN15220PY | Density Standard 1.7495g/ml @15°C | 100ml |
| DEN15230PY | Density Standard 1.9171g/ml @15°C | 100ml |
| DEN15240PY | Density Standard 2.0846g/ml @15°C | 100ml |
| DEN15250PY | Density Standard 2.2568g/ml @15°C | 100ml |
| DEN15260PY | Density Standard 2.4261g/ml @15°C | 100ml |
| DEN15270PY | Density Standard 2.6055g/ml @15°C | 100ml |
| DEN15280PY | Density Standard 2.7588g/ml @15°C | 100ml |
| DEN15290PY | Density Standard 2.9418g/ml @15°C | 100ml |
| DEN15300PY | Density Standard 3.1140g/ml @15°C | 100ml |


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## AOAC Official Method 945.06 Specific Gravity (Apparent)of Distilled Liquor.Pyconometer Method.
## AOAC Official Method 942.06 Alcohol by volume in Distilled Liquors. Pyconometer Method.
## AOAC Official Method 945.07 Alcohol by Weight in Distilled Liquors. Pyconometer Method.
## Density Standards at 20°C

| Product No. | Description | Pack size |
|---|---|---|
| DEN20010PY | Density Standard 0.6919g/ml @20°C | 100ml |
| DEN20020PY | Density Standard 0.7033g/ml @20°C | 100ml |
| DEN20030PY | Density Standard 0.7148g/ml @20°C | 100ml |
| DEN20040PY | Density Standard 0.7261g/ml @20°C | 100ml |
| DEN20050PY | Density Standard 0.7374g/ml @20°C | 100ml |
| DEN20060PY | Density Standard 0.7488g/ml @20°C | 100ml |
| DEN20070PY | Density Standard 0.7683g/ml @20°C | 100ml |
| DEN20080PY | Density Standard 0.7893g/ml @20°C | 100ml |
| DEN20090PY | Density Standard 0.8126g/ml @20°C | 100ml |
| DEN20100PY | Density Standard 0.8384g/ml @20°C | 100ml |
| DEN20110PY | Density Standard 0.8668g/ml @20°C | 100ml |
| DEN20120PY | Density Standard 0.9098g/ml @20°C | 100ml |
| DEN20130PY | Density Standard 0.9476g/ml @20°C | 100ml |
| DEN20140PY | Density Standard 1.0005g/ml @20°C | 100ml |
| DEN20150PY | Density Standard 1.0301g/ml @20°C | 100ml |
| DEN20160PY | Density Standard 1.0792g/ml @20°C | 100ml |
| DEN20170PY | Density Standard 1.1651g/ml @20°C | 100ml |
| DEN20180PY | Density Standard 1.2486g/ml @20°C | 100ml |
| DEN20190PY | Density Standard 1.3304g/ml @20°C | 100ml |
| DEN20200PY | Density Standard 1.4136g/ml @20°C | 100ml |
| DEN20210PY | Density Standard 1.5799g/ml @20°C | 100ml |
| DEN20220PY | Density Standard 1.7470g/ml @20°C | 100ml |
| DEN20230PY | Density Standard 1.9141g/ml @20°C | 100ml |
| DEN20240PY | Density Standard 2.0812g/ml @20°C | 100ml |
| DEN20250PY | Density Standard 2.2531g/ml @20°C | 100ml |
| DEN20260PY | Density Standard 2.4219g/ml @20°C | 100ml |
| DEN20270PY | Density Standard 2.6011g/ml @20°C | 100ml |
| DEN20280PY | Density Standard 2.7542g/ml @20°C | 100ml |
| DEN20290PY | Density Standard 2.9370g/ml @20°C | 100ml |
| DEN20300PY | Density Standard 3.1096g/ml @20°C | 100ml |


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## AOAC Official Method 945.06 Specific Gravity (Apparent)of Distilled Liquor.Pyconometer Method.
## AOAC Official Method 942.06 Alcohol by volume in Distilled Liquors. Pyconometer Method.
## AOAC Official Method 945.07 Alcohol by Weight in Distilled Liquors. Pyconometer Method.
## Density Standards at 25°C

| Product No. | Description | Pack size |
|---|---|---|
| DEN25010PY | Density Standard 0.6878g/ml @25°C | 100ml |
| DEN25020PY | Density Standard 0.6993g/ml @25°C | 100ml |
| DEN25030PY | Density Standard 0.7111g/ml @25°C | 100ml |
| DEN25040PY | Density Standard 0.7223g/ml @25°C | 100ml |
| DEN25050PY | Density Standard 0.7337g/ml @25°C | 100ml |
| DEN25060PY | Density Standard 0.7452g/ml @25°C | 100ml |
| DEN25070PY | Density Standard 0.7645g/ml @25°C | 100ml |
| DEN25080PY | Density Standard 0.7853g/ml @25°C | 100ml |
| DEN25090PY | Density Standard 0.8084g/ml @25°C | 100ml |
| DEN25100PY | Density Standard 0.8340g/ml @25°C | 100ml |
| DEN25110PY | Density Standard 0.8622g/ml @25°C | 100ml |
| DEN25120PY | Density Standard 0.9060g/ml @25°C | 100ml |
| DEN25130PY | Density Standard 0.9438g/ml @25°C | 100ml |
| DEN25140PY | Density Standard 0.9969g/ml @25°C | 100ml |
| DEN25150PY | Density Standard 1.0265g/ml @25°C | 100ml |
| DEN25160PY | Density Standard 1.0755g/ml @25°C | 100ml |
| DEN25170PY | Density Standard 1.1639g/ml @25°C | 100ml |
| DEN25180PY | Density Standard 1.2471g/ml @25°C | 100ml |
| DEN25190PY | Density Standard 1.3287g/ml @25°C | 100ml |
| DEN25200PY | Density Standard 1.4117g/ml @25°C | 100ml |
| DEN25210PY | Density Standard 1.5775g/ml @25°C | 100ml |
| DEN25220PY | Density Standard 1.7441g/ml @25°C | 100ml |
| DEN25230PY | Density Standard 1.9108g/ml @25°C | 100ml |
| DEN25240PY | Density Standard 2.0775g/ml @25°C | 100ml |
| DEN25250PY | Density Standard 2.2490g/ml @25°C | 100ml |
| DEN25260PY | Density Standard 2.4175g/ml @25°C | 100ml |
| DEN25270PY | Density Standard 2.5964g/ml @25°C | 100ml |
| DEN25280PY | Density Standard 2.7493g/ml @25°C | 100ml |
| DEN25290PY | Density Standard 2.9319g/ml @25°C | 100ml |
| DEN25300PY | Density Standard 3.1043g/ml @25°C | 100ml |


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## AOAC Official Method 945.06 Specific Gravity (Apparent)of Distilled Liquor.Pyconometer Method. AOAC Official Method 942.06 Alcohol by volume in Distilled Liquors. Pyconometer Method. AOAC Official Method 945.07 Alcohol by Weight in Distilled Liquors. Pyconometer Method.Density Standards at 40°C

| Product No. | Description | Pack size |
|---|---|---|
| DEN40010PY | Density Standard 0.6752g/ml @40°C | 100ml |
| DEN40020PY | Density Standard 0.6872g/ml @40°C | 100ml |
| DEN40030PY | Density Standard 0.6997g/ml @40°C | 100ml |
| DEN40040PY | Density Standard 0.7109g/ml @40°C | 100ml |
| DEN40050PY | Density Standard 0.7226g/ml @40°C | 100ml |
| DEN40060PY | Density Standard 0.7343g/ml @40°C | 100ml |
| DEN40070PY | Density Standard 0.7531g/ml @40°C | 100ml |
| DEN40080PY | Density Standard 0.7733g/ml @40°C | 100ml |
| DEN40090PY | Density Standard 0.7958g/ml @40°C | 100ml |
| DEN40100PY | Density Standard 0.8207g/ml @40°C | 100ml |
| DEN40110PY | Density Standard 0.8482g/ml @40°C | 100ml |
| DEN40120PY | Density Standard 0.8945g/ml @40°C | 100ml |
| DEN40130PY | Density Standard 0.9323g/ml @40°C | 100ml |
| DEN40140PY | Density Standard 0.9857g/ml @40°C | 100ml |
| DEN40150PY | Density Standard 1.0152g/ml @40°C | 100ml |
| DEN40160PY | Density Standard 1.0642g/ml @40°C | 100ml |
| DEN40170PY | Density Standard 1.1581g/ml @40°C | 100ml |
| DEN40180PY | Density Standard 1.2408g/ml @40°C | 100ml |
| DEN40190PY | Density Standard 1.3217g/ml @40°C | 100ml |
| DEN40200PY | Density Standard 1.4039g/ml @40°C | 100ml |
| DEN40210PY | Density Standard 1.5685g/ml @40°C | 100ml |
| DEN40220PY | Density Standard 1.7339g/ml @40°C | 100ml |
| DEN40230PY | Density Standard 1.8994g/ml @40°C | 100ml |
| DEN40240PY | Density Standard 2.0649g/ml @40°C | 100ml |
| DEN40250PY | Density Standard 2.2352g/ml @40°C | 100ml |
| DEN40260PY | Density Standard 2.4028g/ml @40°C | 100ml |
| DEN40270PY | Density Standard 2.5807g/ml @40°C | 100ml |
| DEN40280PY | Density Standard 2.7329g/ml @40°C | 100ml |
| DEN40290PY | Density Standard 2.9132g/ml @40°C | 100ml |
| DEN40300PY | Density Standard 3.0852g/ml @40°C | 100ml |


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## AOAC Official Method 945.06 Specific Gravity (Apparent)of Distilled Liquor.Pyconometer Method. AOAC Official Method 942.06 Alcohol by volume in Distilled Liquors. Pyconometer Method. AOAC Official Method 945.07 Alcohol by Weight in Distilled Liquors. Pyconometer Method.Density Standards at 50°C

| Product No. | Description | Pack size |
|---|---|---|
| DEN50010PY | Density Standard 0.6668g/ml @50°C | 100ml |
| DEN50020PY | Density Standard 0.6791g/ml @50°C | 100ml |
| DEN50030PY | Density Standard 0.6917g/ml @50°C | 100ml |
| DEN50040PY | Density Standard 0.7033g/ml @50°C | 100ml |
| DEN50050PY | Density Standard 0.7151g/ml @50°C | 100ml |
| DEN50060PY | Density Standard 0.7269g/ml @50°C | 100ml |
| DEN50070PY | Density Standard 0.7454g/ml @50°C | 100ml |
| DEN50080PY | Density Standard 0.7653g/ml @50°C | 100ml |
| DEN50090PY | Density Standard 0.7873g/ml @50°C | 100ml |
| DEN50100PY | Density Standard 0.8118g/ml @50°C | 100ml |
| DEN50110PY | Density Standard 0.8387g/ml @50°C | 100ml |
| DEN50120PY | Density Standard 0.8868g/ml @50°C | 100ml |
| DEN50130PY | Density Standard 0.9245g/ml @50°C | 100ml |
| DEN50140PY | Density Standard 0.9777g/ml @50°C | 100ml |
| DEN50150PY | Density Standard 1.0073g/ml @50°C | 100ml |
| DEN50160PY | Density Standard 1.0562g/ml @50°C | 100ml |
| DEN50170PY | Density Standard 1.1512g/ml @50°C | 100ml |
| DEN50180PY | Density Standard 1.2346g/ml @50°C | 100ml |
| DEN50190PY | Density Standard 1.3138g/ml @50°C | 100ml |
| DEN50200PY | Density Standard 1.3973g/ml @50°C | 100ml |
| DEN50210PY | Density Standard 1.5609g/ml @50°C | 100ml |
| DEN50220PY | Density Standard 1.7257g/ml @50°C | 100ml |
| DEN50230PY | Density Standard 1.8904g/ml @50°C | 100ml |
| DEN50240PY | Density Standard 2.0551g/ml @50°C | 100ml |
| DEN50250PY | Density Standard 2.2247g/ml @50°C | 100ml |
| DEN50260PY | Density Standard 2.3916g/ml @50°C | 100ml |
| DEN50270PY | Density Standard 2.5689g/ml @50°C | 100ml |
| DEN50280PY | Density Standard 2.7207g/ml @50°C | 100ml |
| DEN50290PY | Density Standard 2.9005g/ml @50°C | 100ml |
| DEN50300PY | Density Standard 3.0721g/ml @50°C | 100ml |


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## AOAC Official Method 945.06 Specific Gravity (Apparent)of Distilled Liquor.Pyconometer Method.
## AOAC Official Method 942.06 Alcohol by volume in Distilled Liquors. Pyconometer Method.
## AOAC Official Method 945.07 Alcohol by Weight in Distilled Liquors. Pyconometer Method.
## Density Standards at 60°C

| Product No. | Description | Pack size |
|---|---|---|
| DEN60010PY | Density Standard 0.6582g/ml @60°C | 100ml |
| DEN60020PY | Density Standard 0.6708g/ml @60°C | 100ml |
| DEN60030PY | Density Standard 0.6835g/ml @60°C | 100ml |
| DEN60040PY | Density Standard 0.6955g/ml @60°C | 100ml |
| DEN60050PY | Density Standard 0.7076g/ml @60°C | 100ml |
| DEN60060PY | Density Standard 0.7196g/ml @60°C | 100ml |
| DEN60070PY | Density Standard 0.7376g/ml @60°C | 100ml |
| DEN60080PY | Density Standard 0.7572g/ml @60°C | 100ml |
| DEN60090PY | Density Standard 0.7788g/ml @60°C | 100ml |
| DEN60100PY | Density Standard 0.8027g/ml @60°C | 100ml |
| DEN60110PY | Density Standard 0.8292g/ml @60°C | 100ml |
| DEN60120PY | Density Standard 0.8790g/ml @60°C | 100ml |
| DEN60130PY | Density Standard 0.9166g/ml @60°C | 100ml |
| DEN60140PY | Density Standard 0.9695g/ml @60°C | 100ml |
| DEN60150PY | Density Standard 0.9990g/ml @60°C | 100ml |
| DEN60160PY | Density Standard 1.0478g/ml @60°C | 100ml |

## AOAC Official Method 945.06 Specific Gravity (Apparent)of Distilled Liquor.Pyconometer Method.
## AOAC Official Method 942.06 Alcohol by volume in Distilled Liquors. Pyconometer Method.
## AOAC Official Method 945.07 Alcohol by Weight in Distilled Liquors. Pyconometer Method.
## Density Standards at 80°C

| Product No. | Description | Pack size |
|---|---|---|
| DEN80010PY | Density Standard 0.6407g/ml @80°C | 100ml |
| DEN80020PY | Density Standard 0.6538g/ml @80°C | 100ml |
| DEN80030PY | Density Standard 0.6661g/ml @80°C | 100ml |
| DEN80040PY | Density Standard 0.6798g/ml @80°C | 100ml |
| DEN80050PY | Density Standard 0.6923g/ml @80°C | 100ml |
| DEN80060PY | Density Standard 0.7047g/ml @80°C | 100ml |
| DEN80070PY | Density Standard 0.7220g/ml @80°C | 100ml |
| DEN80080PY | Density Standard 0.7407g/ml @80°C | 100ml |
| DEN80090PY | Density Standard 0.7614g/ml @80°C | 100ml |
| DEN80100PY | Density Standard 0.7844g/ml @80°C | 100ml |
| DEN80110PY | Density Standard 0.8098g/ml @80°C | 100ml |
| DEN80120PY | Density Standard 0.8629g/ml @80°C | 100ml |
| DEN80130PY | Density Standard 0.9006g/ml @80°C | 100ml |
| DEN80140PY | Density Standard 0.9520g/ml @80°C | 100ml |
| DEN80150PY | Density Standard 0.9815g/ml @80°C | 100ml |
| DEN80160PY | Density Standard 1.0302g/ml @80°C | 100ml |


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