

Refractive Index Digital Refractometers

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Refractive Index Digital Refractometers

A digital refractometer uses the total reflection method to measure the refractive index or related values of a liquid sample. This measurement is done digitally, reducing operator influence considerably. Accuracy of up to 0.00002 or 0.01% Brix can be reached, with small sample volume (0.5 to 1 mL) and short measuring time (a few seconds).

Digital Refractometer | Benchtop & Portable Meters ...

VEE GEE Scientific Portable Digital Refractometers deliver digital accuracy and high-end features for specific applications. Brix and Refractive Index scales can be used in a wide variety of industries including: food & beverage, industrial, waste-water,

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aquatics, and many more.

Digital Brix/Refractive Index Refractometers - VEE GEE ...

The refractive index of a liquid at 20°C will be different from the refractive index of the same liquid, at the same concentration, when the liquid is heated to 90°C. Accurate temperatures for the process to be measured are therefore critical to an accurate measurement. Inside the refractometer's probe is the optical block.

Refractometer - Abbe, inline, brix, digital refractometers

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Refractive Index Digital Refractometers

A refractometer measures the degree to which the light changes direction, called the angle of refraction. A refractometer takes the refraction angles and correlates them to refractive index (nD) values that have been established. Using these values, you can determine the concentrations of solutions.

Refractometers from Cole-Parmer

Refractometers. A.KRÜSS refractometers measure the refractive index of liquids, pastes and solids with high precision. In close cooperation with well-known partners from industry and research, we have developed refractometers that can be easily integrated into existing processes in the laboratory.

Refractometers for measuring refractive index nD or %Brix

High-quality versatile digital refractometer from american company MISCO je is suitable for all laboratories.It is equipped with two versatile scales for measuring of refractive index: Brix: 0 to 85 °Bx (0.1 °Bx) RI: 1.3330 to 1.5000 (0.0001)

Refractometers for refractive index measuring ...

Index Instruments Index Instruments have been making refractometers since 1975 and offer a wealth of experience in this specialised field of scientific instrumentation. We spend a high portion of our turnover in a programme of continuous research and development to improve and innovate our products. Latest Trade Exhibitions View all events

Index Instruments - Index Instruments - refractometers

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A Refractometer is a precision optical instrument designed to measure the concentration or mixture ratio of water soluble fluids. It measures refractive index, the speed at which light passes through a liquid. The denser the liquid the slower the light will travel through it, and the higher its reading will be on the refractometer.

MISCO Refractometer | Refractometer Sales & Service | Made ...

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MISCO Refractometer | Refractometer Sales & Service | Made ...

Abbat refractometers determine the refractive index with an accuracy of up to ± 0.00002 nD, within a measuring range of 1.26 nD to 1.72 nD and a temperature range from 4 °C to 125 °C. The high accuracy of up to ± 0.03 °C is achieved by precise internal Peltier temperature control.

Refractometer :: Anton-Paar.com

Refractometer - Benchtop Digital Refractometer. ... Here are some typical applications of refractive index measurement: Brix measurement, applications in fats and oils production, applications in flavors and fragrances production, analysis of juices, juices concentrates and carbonated beverages.

Refractometer | Automatic & Digital - METTLER TOLEDO

Hanna's new HI96800 Digital Refractometer measures Refractive Index and displays results in both temperature compensated (nD20) and non-temperature compensated (nD) formats on the dual-level LCD screen. The HI96800's intuitive layout and pinpoint accuracy ensures effortless operation and reliable readings every time.

Digital Refractometer for Refractive Index and Brix - HI96800

The DR series Digital Hand Refractometers are easy-to-use battery-powered instruments, ideal for Brix measurements on fruits and fruit juices, soft drinks, and other food products. Models are available that provide multiple measurements, with selections for Brix, salinity (for ketchup, mayonnaise, pickle juice, etc.) or Refractive Index.

Digital refractometers Abbe, Brix | Refractometer

Sper Scientific Brix / Refractive Index Digital Refractometer 300033. Sper Scientific authorized distributor . ☎ (800) 970-3646 Mon-Fri 8.00-17.00 ET or order online 24/7

Sper Scientific, 300033 - Brix / Refractive Index Digital ...

These high-precision Digital Lab Refractometers measure concentrations in brix, salinity, refractive index and clinical parameters with full scale accuracy of 0.1% using CCD scanner (= linear scanned array imaging) technology. These refractometers are simple to use, calibrates to distilled water and requires a sample of only 0.4 ml. They instantly display temperature in addition to multiple scales with the unit of measure indicated on the large LCD.

Lab Refractometer | Digital | Sugar Brix | Sper Scientific

A refractometer is a laboratory or field device for the measurement of an index of refraction (refractometry). The index of refraction is calculated from Snell's law while for mixtures, the index of refraction can be calculated from the composition of the material using several mixing rules such as the Gladstone-Dale relation and Lorentz-Lorenz equation .

Refractometer - Wikipedia

Description: - Each kind of gem has a typical refractive index due to its chemical composition and crystallization structure. Refractive index is one of most important optical parameter, through the parameters you can judge whether the gem is an anisotropic or isotropic stone. - This digital gem refractometer is designed to measure the refractive index ...

Digital Gem Refractometer 1.4-2.0 RI Gemstone Gemology ...

The Digital Hand-Held Urine Specific Gravity "Pen" Refractometer PEN-URINE S.G. utilizes the refractive index method to measure the specific gravity of urine. There are 2 ways to measure the sample: Place the tip into the sample and press the START key or press START and touch the tip...

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