

Spectrometer Tools



Article Overview

Spectrometer performance can be enhanced with a variety of tools including sample holders, light sources, optical filters, calibration standards, software, and consumables.

Sample Holders

Sample holders are essential for stabilizing specimens during analysis, ensuring consistent and reproducible results. They come in various forms such as cuvettes, microplates, flow cells, and specialized holders for liquids, solids, or gases. Adjustable holders, like the UV-Vis Sample Holder 3000, allow precise alignment with the light path, improving measurement accuracy and flexibility for different sample types .

Light Sources

Different spectroscopic techniques require specific light sources. Common options include lasers, LEDs, and tungsten lamps, which provide the necessary spectral range for UV-Vis, IR, or Raman spectroscopy. Choosing the correct light source ensures optimal excitation and signal detection .

Optical Filters and Slits

Optical filters isolate specific wavelengths, enhancing data quality by reducing background noise. Interchangeable slits allow users to adjust the spectrometer's resolution and sensitivity, which is particularly useful for absorbance and emission measurements

Article Content

Spectrometer

A spectrometer is any instrument used to view and analyze a range (or a spectrum) of a given characteristic for a substance (e.g., a

Online MS Tools for Mass Spec Users (by SIS)

Online tools for mass spectrometer users. Includes isotopic profile calculators, exact mass calculators, and periodic table.

Spectrometer

Spectrometers are used in astronomy to analyze the chemical composition of stars and planets, and spectrometers gather data on

Free Spectral Analysis Software — FTIR, Raman & UV-Vis

Free online spectral analysis software with 16 tools for FTIR, Raman, UV-Vis & NIR spectroscopy. Opens 30+ formats. No install.

Spectrometers & Spectroscopy Equipment | Edmund Optics

Edmund Optics offers a range of optical spectrometers and compatible accessories. Our selection includes gas cells, reflectance

Spectrometers

Spectrometers are analytical instruments used to identify the characteristics of materials by measuring the emissions and absorption

Spectrometer | Physics | Research Starters

A spectrometer is a tool that is used to study wavelengths on the electromagnetic spectrum, including visible light waves.

Spectroscopic Tools Portal

Spectroscopic Tools Zusätzlich zu Mol Pirol stehen Ihnen unsere klassischen Web-Tools weiterhin zur Verfügung. In addition to Mol

Spectroscopic Tools Portal

Generieren Sie 13 C-NMR Spektren direkt aus Ihren Berechnungen mit interaktiver Peak-Zuordnung. Generate 13 C-NMR spectra

Optical spectrometer

Grating spectrometer schematic Internal structure of a grating spectrometer: Light comes from left side and diffracts on the upper

SpectrumAnalyzer | Details | SIR Audio Tools

SpectrumAnalyzer is a state-of-the-art spectrum analyzer plugin, which offers a lot of opportunities to display the spectral content of

SPECTRIFY – Your New Spectral Suite

Quickly process spectra with built-in tools for baseline correction, smoothing, standardization and more. All your spectra and

Elementanalyse

Erfahren Sie mehr über SPECTRO Analytical, einem weltweit führenden Anbieter von ICP, OES & RFA Analysegeräten für die

Spectrometers

What spectrometer do I need? We offer a wide selection of spectrometers for various applications, wavelengths, and measurements.

Spectrometers for Chemical Analysis

Compact and digital spectrometers designed for use in the chemical industry that will optimize and simplify your spectrophotometric

Spectrometers

With our spectrometers, data can be collected and analyzed using our LabQuest 2, LabQuest 3, or free Vernier Spectral Analysis ®

Spectrometers | PASCO

A spectrometer is a device that allows scientists to dissect light into its constituent colors, akin to separating the vibrant hues of a

Spectroscopy and Spectrometry Instruments

Spectroscopy and Spectrometry Instruments Spectroscopy is used as a tool for studying the structures of atoms and molecules. The

Contact Us

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