

Thermo Scientific picoSpin 45 NMR Spectrometer

Accessible and affordable NMR spectroscopy

The Thermo Scientific™ picoSpin™ 45 spectrometer provides the power of Nuclear Magnetic Resonance (NMR) spectroscopy in a compact and affordable instrument. By drastically lowering cost and size, the picoSpin 45 instrument makes NMR spectroscopy accessible to a variety of laboratories.



The picoSpin 45 spectrometer is simple to operate. It is easy for students and technicians with limited NMR experience to use the power of NMR spectroscopy to identify chemical compounds or verify their structure. The instrument's fluid capillary system is contained within a replaceable cartridge and only requires 30 microliters of a liquid sample.

Its temperature-controlled permanent magnet does not require cryogenics, eliminating the need for consumables or custom laboratory facilities. Additionally, because the instrument is lightweight (less than five kilograms), the picoSpin 45 spectrometer is easily shared across multiple laboratories.



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Product Specifications

Performance

- Larmor Frequency
 45 ± 1 MHz Proton
- Chemical Shift Resolution
 40 ppb FWHM or Better

Magnet

- Rare Earth Permanent
- 1.1 Tesla
- Temperature Stabilized

Capillary Cartridge

- Capillary Sample Loop
 $400 \mu\text{m}$ Capillary ID
 $30 \mu\text{L}$ Sample Volume
- 1/16" Interface Fittings
- User Replaceable



Sample

- Sample Type
Liquid
- Sample Introduction
Inject Sample via Syringe

Environmental

- No Cryogenics or Compressed Gases
- Standard Laboratory Environment

Interface

- Ethernet
Direct Connection or LAN
- Embedded Web Server

Software/Collect

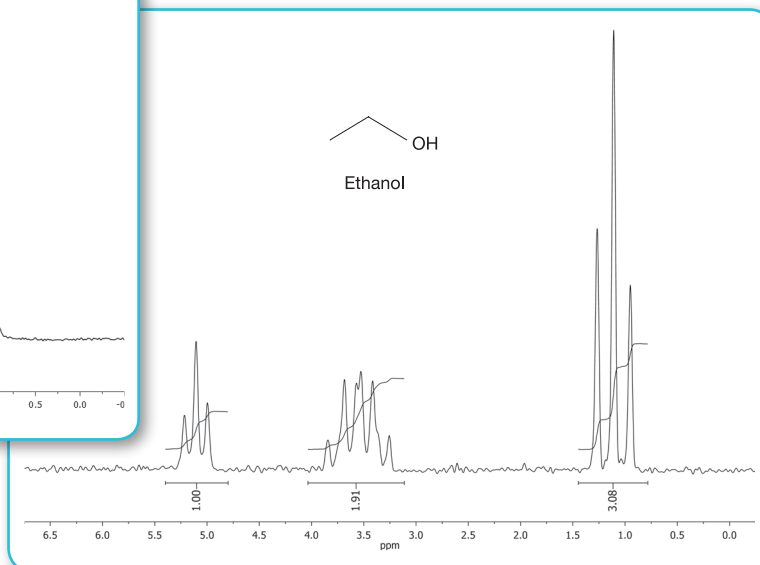
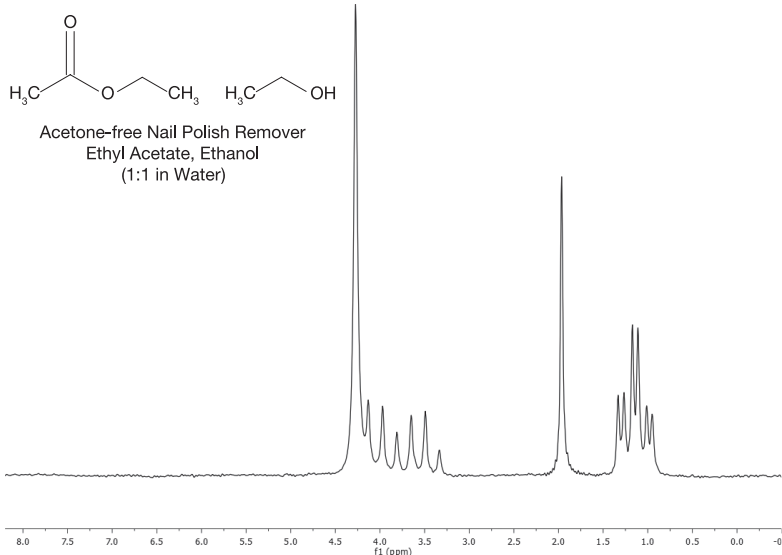
- Web Browser User Interface
- Data Export
JCAMP-DX
Readily opened by many NMR programs
- Data Analysis Software
Mestrelab Mnova™ NMR Software
One Year License

Dimensions

- Size: $20.3 \text{ cm} \times 14.6 \text{ cm} \times 29.2 \text{ cm}$
($8" \times 5.75" \times 11.5"$)
- Weight: 4.8 kg (10.5 lbs)

Electrical Requirements

- 100-230 VAC, 50/60 Hz, 150 W



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Africa +27 11 822 4120

Australia +61 3 9757 4300

Austria +43 1 333 50 34 0

Belgium +32 53 73 42 41

Canada +1 800 530 8447

China +86 10 8419 3588

Denmark +45 70 23 62 60

Europe-Other +43 1 333 50 34 0

Finland/Norway/Sweden

+46 8 556 468 00

France +33 1 60 92 48 00

Germany +49 6103 408 1014

India +91 22 6742 9434

Italy +39 02 950 591

Japan +81 45 453 9100

Latin America +1 561 688 8700

Middle East +43 1 333 50 34 0

Netherlands +31 76 579 55 55

New Zealand +64 9 980 6700

Russia/CIS +43 1 333 50 34 0

Spain +34 914 845 965

Switzerland +41 61 716 77 00

UK +44 1442 233555

USA +1 800 532 4752

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