

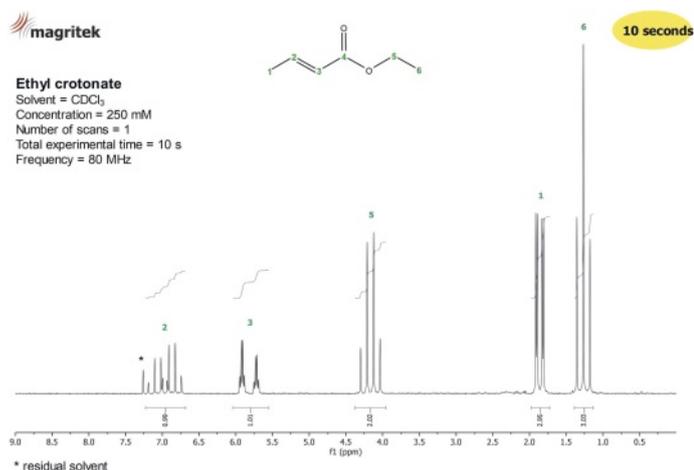
CHIMIA REPORT/COMPANY NEWS

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Discover the Benchtop NMR Spectroscopy solutions from Magritek Powerful NMR Spectrometers for your Chemistry Lab

Don't waste time anymore sending your samples out to the NMR facility, you can measure them immediately in your chemistry lab with a Spinsolve benchtop spectrometer. The Spinsolve is a revolutionary multinuclear NMR spectrometer that provides the best performance of any benchtop NMR system available today. With its small footprint, low weight, and the ability to operate alongside other analytical instruments, you can have powerful, high resolution NMR spectroscopy immediately available in your chemistry lab on a standard laboratory bench or even in a fume hood.



¹H spectrum of ethylcrotonate measured with a Spinsolve 80 MHz.

The highest Performance: Thanks to the unsurpassed homogeneity of Magritek's magnets, Spinsolve systems have an outstanding line shape that is guaranteed to be <0.5 Hz at 50% and <20 Hz at 0.55% of the peak height. By achieving sharp and high peaks we not only deliver the best resolution but also the highest sensitivity. The Spinsolve makes it possible to measure samples with concentrations down to the millimolar range in just minutes.

Spinsolve 80: Spinsolve 80 maintains the highest performance and quality standards you've come to expect from Spinsolve, but now with an unparalleled 80 MHz magnet at its core.

- ✓ Highest field strength (80 MHz) of any benchtop NMR.
- ✓ Outstanding resolution (0.5 Hz/20 Hz).
- ✓ Superior sensitivity (1H dual channel > 200:1 for 1% Ethyl Benzene).
- ✓ Spinsolve 80 is capable of performing even the most advanced multi-nuclear methods with just a single click. Experiments enabled include COSY, DEPT, HSQC-ME, and HMBC.

Spinsolve ULTRA: The Spinsolve ULTRA models have further enhanced line shape (< 0.2 Hz at 50% of the peak height) to provide the optimum conditions for solvent suppression methods to work. The ULTRA models are ideal to quantify sub-millimolar concentrations of substances dissolved in neat protonated solvents. Besides saturating the signals of the solvent, which can



be more than 10,000 larger than the signals of interest, the suppression method offered with the Spinsolve also includes carbon decoupling to eliminate the signal of the carbon satellites of the main solvent signals.

New – Spinsolve 80 is now also available as an Ultra System. **Spinsolve 80 Ultra** combines highest field and highest sensitivity with best spectral resolution.

Online reaction monitoring by benchtop NMR



Spinsolve is ideal for chemists in academia and industry who need to carry out reaction completion checks, identification, structure elucidation, quantification, purity measurements, online reaction monitoring and quality control (QA/QC).

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